

SCREENING SITE INSPECTION REPORT
FOR

WABASH PAPER COATINGS

WABASH, INDIANA

U.S. EPA ID: IND981961501

SS ID: NONE

TDD: F05-8802-004

PAN: FIN0662SB

EPA Region 5 Records Ctr.

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OCTOBER 29, 1991



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1. INTRODUCTION

Ecology and Environment, Inc., Field Investigation Team (FIT) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) of the Wabash Paper Coatings (WPC) site (aka Mafcote-Wabash Paper Coatings, Inc.) under contract number 68-01-7347.

The site was discovered by the Office of Solid and Hazardous Waste Management (OSHWM), Indiana Department of Environmental Management (IDEM), in October 1987. Allegations of sewer discharge high in metals and suspended solids by the Wabash Public Works as well as the old age and condition of the facility prompted IDEM to evaluate the site (Wonderly 1987).

The site was evaluated in the form of a preliminary assessment (PA) that was submitted to U.S. EPA. The PA was prepared by Mary Anne Hunter, OSHWM, IDEM, and is dated October 15, 1987 (U.S. EPA 1987).

FIT prepared an SSI work plan for the WPC site under technical directive document (TDD) F05-8802-004, issued on December 3, 1987. The SSI work plan was approved by U.S. EPA on March 26, 1991. The SSI of the WPC site was conducted on April 17, 1991, under amended TDD F05-8802-004, issued on March 26, 1991.

The FIT SSI included an interview with a site representative, a reconnaissance inspection of the site, and the collection of seven soil samples.

The purposes of an SSI have been stated by U.S. EPA in a directive outlining Pre-Remedial Program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.

The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI. (U.S. EPA 1988)

U.S. EPA Region V has also instructed FIT to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

This section presents information obtained from SSI work plan preparation, the site representative interview, and the reconnaissance inspection of the site.

2.2 SITE DESCRIPTION

The WPC site consists of an active paper coating facility situated on an approximately 1 1/4-acre lot located at 410 South Carroll Street in Wabash, Wabash County, Indiana (SW1/4SW1/4NE1/4 sec. 14. T.27N., R.6E.) (see Figure 2-1 for site location). The site is located in a moderately populated area near the center of the city of Wabash. Land use in the immediate vicinity of the site is mixed industrial, commercial, and residential. The Wabash River is located approximately 1/4 mile south of the site.

A 4-mile radius map of the WPC site is provided in Appendix A.

2.3 SITE HISTORY

The WPC site is currently owned by Mafcote Industries (Mafcote) of Norwalk, Connecticut. Wabash Paper Coatings, Inc., of Wabash, Indiana, owned and operated the WPC site from 1965 until 1985, when Mafcote purchased the site and expanded the company name to Mafcote-Wabash Paper Coatings, Inc. (Mafcote-Wabash). Previous owners and operators of the site prior to 1965 include Ford Meter Box, a manufacturer of thermostats and metering devices; a foundry; a cabinet maker; and the city of



SOURCE: USGS, Wabash, IN Quadrangle, 7.5 Minute Series, 1963, photorevised 1981.

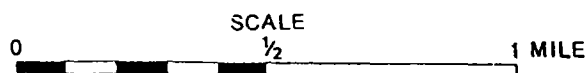


FIGURE 2-1 SITE LOCATION

Wabash. The exact dates of ownership and specific operations are not known (Evans 1991).

Mafcote-Wabash coats paper products such as tags with mixtures of Georgia clay, latex/polymer binders, and textile pigments comprised of metal oxides. Paper is only coated at the facility, not produced. The naturally occurring Georgia clay has a high zinc content and therefore is classified as a special waste that must undergo heavy metal treatment prior to disposal (Evans 1991). Chemicals such as latex/polymer binders, pigments, and brighteners that are used in the coating process at the WPC site are listed in Table 2-1.

Thirteen employees, working five days a week, perform the coating process. Paper stock is rolled through the coating mixture and then dried in a gas-fired infrared oven (Evans 1991). When a pigment color is changed, any excess coating mixture and pigment remaining from the previous coating process are pumped into a floor drain before a fresh pigment is used. The drain empties into a 5,000-gallon underground storage tank (UST) located on the south side of the paper coating building (Evans 1991). The exact date that this storage tank was installed or what material it is constructed of are not known. FIT file information indicates that proposed industrial waste treatment and disposal facilities for paper coating wastes at the WPC site were approved in March 1966 by the Indiana State Board of Health. The proposed facilities included a plan for a plant sewer, a holding tank, a 50-gallons-per-minute (gpm) diaphragm pump, and a tank trailer (Offutt 1966).

The contents of the 5,000-gallon UST are pumped into a treatment tank located inside the paper coating building where the coating waste, containing heavy metals, is treated and dewatered with B-22 polymer, aluminum sulfate, and lime (Evans 1991).

After the coating waste is dewatered, the residual sludge is mixed with sawdust and stored in an outdoor 20-cubic-yard dumpster along with general refuse generated at the WPC site. The dumpster is removed bi-monthly by Wabash Valley Refuse Removal, at which time its contents, including 6 1/4 cubic yards of treated sludge, is disposed of at Wabash Valley Landfill (IDEM 1991). Approval for the disposal of the sludge/

Table 2-1

CHEMICALS USED IN THE COATING PROCESS

CHEMICALS

Aqua Ammonia-26 Degrees
Hydrasperse Clay-Organic
Pro-Cote 150 Protein-Organic
Hydrocarb 30-Calcium Carbonate
Ti-Pure-LW Titanium Dioxide
Rhoplex P-554-Aqueous Acrylic Emulsion
Rhoplex B-85-Aqueous Acrylic Emulsion
Foamaster 1407-Calcium Stearate
Foamaster C-104 Calcium Stearate
Vitrofoos-Sodium Hexametaphosphate
Latex-2149-Resin Emulsion

COLORS

Permanent Violet
Phthalo Blue
Aqua Black
Red-BL
Aquafine Green-B
Aquafine Orange-RB
Yellow P-2G
* Copper Phthalocyanine
Naphthol
Diaralid Yellow

Source: Evans 1991.

refuse waste by OSHWM, IDEM, requires that no freestanding liquids be dumped into the Wabash Valley Landfill (Evans 1991).

In July 1988, Edglo Laboratories, Inc. (Edglo), of Fort Wayne, Indiana, conducted a one-time Extraction Procedure (EP) Toxicity test on a treated coating waste sample (Knott 1988). The coating waste was analyzed for arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, and zinc. Edglo found that the treated coating waste sample did not contain levels of analytes considered hazardous according to EP Toxicity levels (Knott 1988).

Mafcote-Wabash discharges the wastewater generated during the dewatering treatment process to the city sewer. Problems with sewer discharges high in solids and metals were alleged in previous years and brought to the attention of IDEM (U.S. EPA 1987). However, FIT files have no documented evidence of any violations regarding sewer discharge. According to a schedule of compliance with the city of Wabash industrial wastewater treatment program, Mafcote-Wabash currently monitors wastewater that is discharged to the city sewer twice per year (Evans 1991). The most recent wastewater analysis available at the time of the SSI was performed by Edglo, and levels of metals in the wastewater were found to be below EP Toxicity levels.

The only remedial activity known to have taken place at the WPC site was a one-time-only asbestos removal conducted in September 1985 when Mafcote first purchased the site. The State of Indiana Environmental Management Board approved the removal of 55, 55-gallon bags of asbestos from a water pipe inside the facility by Asbestos Removal, Inc., of Wabash, Indiana, which disposed of the asbestos at the Spring Valley Landfill in Wabash, Indiana (Pickard 1985).

No further remedial action has taken place at the WPC site.

3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures and observations of the SSI of the WPC site. Individual subsections address the site representative interview, reconnaissance inspection, and sampling procedures. Rationales for specific FIT activities are also provided. The SSI was conducted in accordance with the U.S. EPA-approved work plan.

The U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the WPC site is provided in Appendix B.

3.2 SITE REPRESENTATIVE INTERVIEW

Deborah Epstein, FIT team leader, conducted an interview with Daryl Evans, Operations Manager, Mafcote-Wabash. Also present at the interview were Mary Tierney and Mikhail Gumin, FIT team members. The interview was conducted on April 17, 1991, at 9:20 a.m. in Evans's office at Mafcote-Wabash, 410 South Carroll Street, Wabash, Indiana. The interview was conducted to gather information that would aid FIT in conducting SSI activities.

3.3 RECONNAISSANCE INSPECTION

Following the site representative interview, FIT conducted a reconnaissance inspection of the WPC site and surrounding area in accordance with Ecology and Environment, Inc. (E & E), health and safety guidelines. The reconnaissance inspection began at 12:10 p.m. and included a walk-through of the site to determine appropriate health and safety requirements for conducting on-site activities and to make

observations to aid in characterizing the site. FIT also determined sampling locations during the reconnaissance inspection. FIT was accompanied by Evans during the reconnaissance inspection.

Reconnaissance Inspection Observations. The WPC site includes two interconnected buildings, covering approximately 15,000 square feet on the northeastern portion of the 1 1/4-acre site. The site is bordered by Conrail Railroad tracks on the north, West Street on the south, Carroll Street on the east, and a manufacturing company on the west (see Figure 3-1 for site features). The topography of the site is generally level.

The immediate vicinity of the site consists of residences to the south and east, and industrial and commercial properties to the north and west.

There are two on-site brick buildings, an office/paper coating building and a warehouse, which are connected by a two-story aluminum walkway that is also used for storage of paper stock and coated paper cores. A drum storage shed and a maintenance shed are attached to the northern portion of the L-shaped paper coating building on the west side.

The drum storage shed is enclosed by three aluminum sides and a roof. The side of the shed facing south is open. Approximately 60, 55-gallon drums were observed inside the shed, which has a dirt floor. Most of the drums appeared to be empty. Several drums were labeled as flammable liquids such as paper protector and oil. Ten drums were observed next to the storage shed. A small patch of a crusty yellow substance resembling hardened epoxy was observed next to one of the 10 drums. Areas of dead grass were also observed near the drums stored outside the shed. A parking area is located adjacent to the drum storage shed.

Rusted metal and wooden scraps were observed next to the maintenance shed, which was undergoing roof repair at the time of the SSI.

A gravel access road extends west from Carroll Street near the southeast corner of the site, between the warehouse and West Street, then turns north and continues along the west side of the paper coating building to the drum storage shed. Approximately nine empty 55-gallon

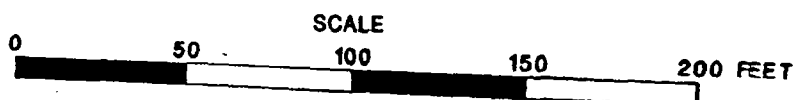
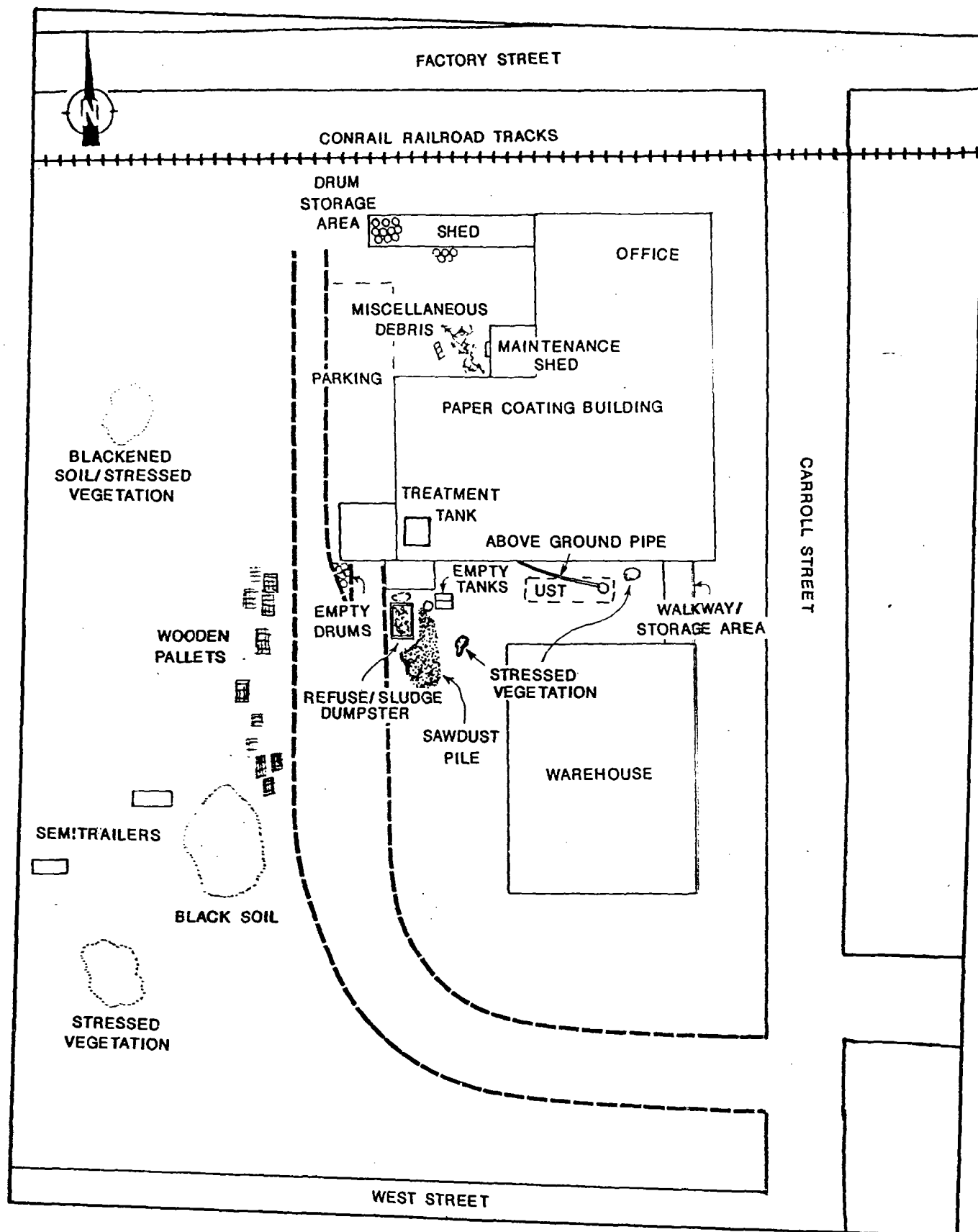


FIGURE 3-1 SITE FEATURES

drums that once contained pigment were observed at the southwest corner of the paper coating building, next to the gravel access road.

The 5,000-gallon UST is located between the two buildings, just west of the connective walkway. A pipe, attached to wooden stakes approximately 3 feet above the ground, leads from the cover of the UST to the waste treatment tank located inside the southwest corner of the paper coating building. An aboveground vent is located next to the UST cover. FIT observed a patch of stressed vegetation between the UST cover and the aboveground vent. During the SSI, a thick green-colored liquid, which was being drained from the paper coating building into the UST, flooded the ground surrounding the aboveground vent. Employees, alerted by FIT to the flooding, unclogged the vent and poured sawdust on the ground to soak up the green-colored liquid.

Two overturned empty tanks, a sawdust pile, and a 20-cubic-yard refuse/sludge dumpster are located approximately 20 feet west of the UST cover. At the time of the SSI, the dumpster was filled with sludge mixed with sawdust, scraps of paper, cardboard cores, and empty pigment drums. FIT observed that the dumpster was leaking, forming a puddle of pink and green-colored liquid at the north end of the dumpster. Patches of black-stained and stressed vegetation were observed in several areas next to the dumpster and the UST.

Several piles of wooden pallets were located on the west side of the gravel access road. Also, two semitrailers were stored approximately 75 feet southwest of the wooden pallets, near the edge of the west boundary of the site. Several areas of concrete were observed near the semitrailers. Blackened soil and stressed vegetation were observed next to the semitrailers and in various places north of the semi-trailers.

FIT photographs from the SSI of the WPC site are provided in Appendix C.

3.4 SAMPLING PROCEDURES

Samples were collected by FIT at locations selected during the reconnaissance inspection to determine whether U.S. EPA Target Compound List (TCL) compounds or Target Analyte List (TAL) analytes were present

at the site. The TCL compounds and TAL analytes are included with corresponding quantitation/detection limits in Appendix D.

On April 17, 1991, FIT collected seven surface and subsurface soil samples, including one potential background sample. The site representative accepted offered portions of the FIT-collected samples.

Soil Sampling Procedures. Surface soil sample S1 was collected from an area of blackened soil and stressed vegetation located approximately 15 feet southeast of the cover of the UST (see Figure 3-2 for on-site soil sampling locations). Surface soil sample S2 was collected from an area of stressed vegetation next to the UST cover. Soil samples S1 and S2 were collected to characterize the soil that may be exposed to untreated coating waste overflowing or leaking from the vent and pipes leading to the UST.

Surface soil sample S3 was collected from soil in a puddle of pink and green-colored liquid that was observed leaking from the northern edge of the refuse/sludge dumpster during the SSI. Sample S3 was collected in order to characterize the soil beneath the dumpster.

Surface soil sample S4 was collected beneath the layer of crusty, yellow substance that may have leaked from 55-gallon drums stored outside the south side of the drum storage shed. This sample was collected to determine whether chemicals that were once contained in the drums may have leaked into the soil.

Subsurface soil sample S5 was collected at an approximate depth of 2 1/2 feet, from an area of blackened soil and stressed vegetation located approximately 50 feet west of the parking area. An attempt to collect a deeper sample was hindered by the presence of hard rock below 2 1/2 feet. Surface soil sample S6 was collected from an area of stressed vegetation located approximately 20 feet south of the semi-trailers. Samples S5 and S6 were collected to determine whether TCL compounds and TAL analytes were present in their respective locations.

Surface soil sample S7 was collected as a potential background sample from an approximately 30-foot-high, grass- and tree-covered hill located in a residential area on the south side of the Wabash River, approximately 2,100 feet southwest of the WPC site at 184 Middle Street (see Figure 3-3 for off-site soil sampling location). The potential

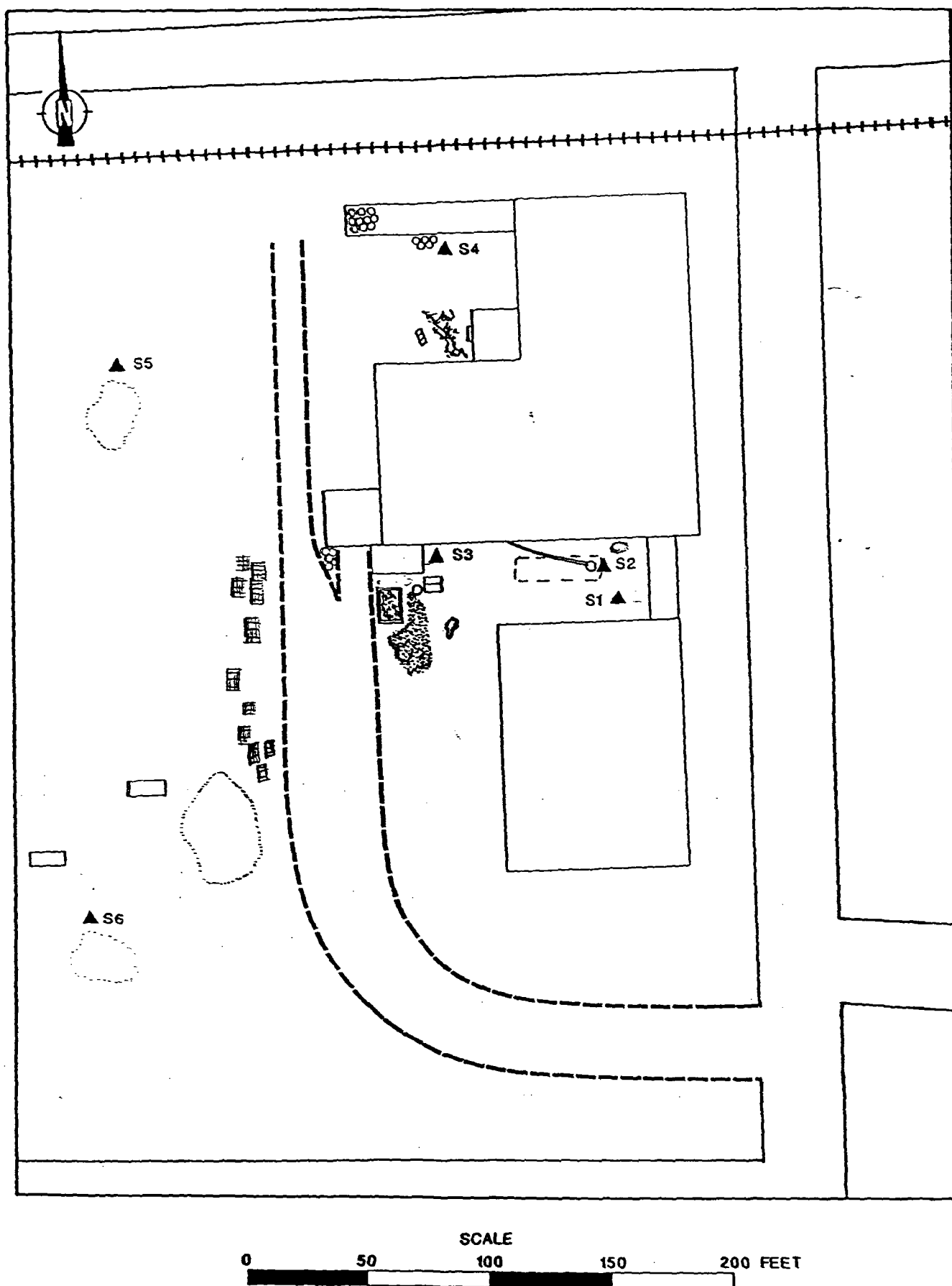


FIGURE 3-2 SOIL SAMPLING LOCATIONS



SOURCE: USGS, Wabash, IN Quadrangle, 7.5 Minute Series, 1963, photorevised 1981.

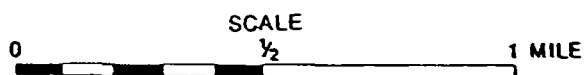


FIGURE 3-3 OFF-SITE SOIL SAMPLING LOCATION

background sample was collected to determine the representative chemical content of the soil in the vicinity of the site.

All surface soil samples--S1, S2, S3, S4, S6, and S7--were collected with stainless steel trowels. Subsurface soil sample S5 was collected with a posthole digger. The sample portions collected for volatile organic analysis were transferred directly to sample bottles with a stainless steel spoon. The remaining sample portions were placed into a stainless steel bowl, mixed, and then transferred to the appropriate sample bottles, using a stainless steel spoon or a hand trowel (E & E 1987).

Standard E & E decontamination procedures were adhered to during the collection of all seven soil samples. The procedures included the scrubbing of all equipment (e.g., spoons, trowels, bowls, and posthole digger) with a solution of detergent (Alconox) and distilled water, and triple-rinsing the equipment with distilled water before the collection of each sample (E & E 1987). All seven soil samples were packaged and shipped in accordance with U.S. EPA-required procedures.

As directed by U.S. EPA, all seven soil samples were analyzed using the U.S. EPA Contract Laboratory Program (CLP).

4. ANALYTICAL RESULTS

This section presents results of the chemical analysis of soil samples collected by FIT during the SSI of the VPC site. All samples were analyzed for volatile organics, semivolatile organics, pesticides/polychlorinated biphenyls (PCBs), metals, and cyanide. Complete chemical analysis results of FIT-collected soil samples are provided in Table 4-1. In addition, significant tentatively identified compounds (TICs) detected in the analysis of FIT-collected samples are also provided in Table 4-1.

Quantitation/detection limits used in the analysis of FIT-collected samples are provided in Appendix D.

The analytical data from the chemical analysis of FIT-collected samples for this SSI have been reviewed under the direction of U.S. EPA for validity; the review has been approved by U.S. EPA. The analytical data have also been reviewed by FIT for usability. Any additions, deletions, or changes resulting from review of the data have been incorporated in the chemical analysis results table presented in this section.

Table 4-1
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED SOIL SAMPLES
FOR THE WPC SITE SSI

Sample Collection Information and Parameters	S1	S2	S3	Sample Number S4	S5	S6	S7
Date	4/17/91	4/17/91	4/17/91	4/17/91	4/17/91	4/17/91	4/17/91
Time	1330	1340	1330	1407	1520	1452	1645
CLP Organic Traffic Report Number	EKN21	ENA49	ENA50	ENA51	EMW92	EMW93	EMW94
CLP Inorganic Traffic Report Number	MEMG76	MEMG77	MEMG78	MEMG79	MEMG80	MEMG81	MEMG82
<u>Compound Detected</u> (values in µg/kg)							
<u>Volatile Organics</u>							
methylene chloride	--	--	--	--	--	7	--
acetone	--	27	57,000	--	--	--	--
2-butanone (MEK)	--	--	1,500J	--	--	--	--
toluene	--	--	--	--	7	5J	--
<u>Semivolatile Organics</u>							
naphthalene	--	--	--	--	320J	--	--
2-methylnaphthalene	--	--	--	2,500J	400J	--	--
acenaphthene	--	--	--	--	90J	--	--
dibenzofuran	--	--	--	--	160J	--	--
hexachlorobenzene	--	--	--	--	--	51J	--
phenanthrene	--	120J	--	--	740	--	--
anthracene	--	--	--	--	130J	--	--
di-n-butylphthalate	--	--	--	--	--	--	510
fluoranthene	--	--	--	--	120J	--	--
pyrene	--	160J	--	--	1,600	74J	--
benzo[a]anthracene	--	--	--	--	700J	--	--
chrysene	--	--	--	--	890	--	--
bis(2-ethylhexyl)phthalate	310J	370J	--	--	--	--	190J
benzo[b]fluoranthene	240J	--	--	--	2,000	--	--
benzo[a]pyrene	210J	--	--	--	810	--	--

Table 4-1 (Cont.)

Sample Collection Information and Parameters	Sample Number						
	S1	S2	S3	S4	S5	S6	S7
indeno[1,2,3-cd]pyrene	--	--	--	--	240J	--	--
<u>Pesticides/PCBs</u>							
Aldrin	--	--	--	--	11	--	--
Aroclor 1248	--	--	--	--	--	410	--
Aroclor 1254	--	--	--	1,700	--	--	--
<u>TICs†</u>							
benzenesulfonamide, 4-methyl (70-55-3)	--	--	30,000J	--	--	--	--
11H-benzo[a]fluorene (238-84-6)	--	--	--	--	1,000J	--	--
benzo[e]pyrene (192-97-2)	--	--	--	--	3,000J	--	--
<u>Analyte Detected</u> (values in mg/kg)							
aluminum	5,200	12,900	11,400	3,230	4,110	25,800	14,700
antimony	231N*J	R	R	R	R	11.0BN*J	--
arsenic	7.6J	6.0J	7.2J	39.1J	0.0J	19.7J	10.9J
barium	33.9	204	63.8	132	68.8	24.7B	80.5
beryllium	0.37B	0.71B	0.42B	0.59B	--	0.79B	0.79B
cadmium	20.4N*J	8.4N*J	8.4N*J	42.6N*J	6.9N*J	12.3N*J	6.6N*J
calcium	8,300*	18,100*	84,900*	19,300*	35,000*	2,000*	27,900*
chromium	7.1N*J	179N*J	45.3N*J	123N*J	7.0N*J	105N*J	29.6N*J
cobalt	14.1	8.5B	5.5B	14.9	5.0B	4.0B	10.6B
copper	168,000*J	192*J	1,340*J	1,540*J	144*J	1,500*J	28.4*J
iron	20,900*J	25,600*J	15,600*J	181,000*J	25,100*J	10,900*J	22,100*J
lead	9,170*J	1,370*J	258*J	595*J	131*J	7,760*J	78.2*J
magnesium	2,820	7,570	21,900	2,540	6,910	1,120B	5,810
manganese	213	570	358	1,400	325	274	606
mercury	--	0.16NJ	0.98NJ	1.0NJ	--	0.18NJ	0.13NJ
nickel	942*J	21.3*J	35.3*J	43.2*J	13.5*J	60.9*J	21.9*J
potassium	547B	1,470	699B	520B	534B	128B	2,100
selenium	0.52B	0.65BWJ	0.67B	0.86B	0.58B	1.7	0.49B

Table 4-1 (Cont.)

Sample Collection Information and Parameters	<u>Sample Number</u>						
	S1	S2	S3	S4	S5	S6	S7
silver	13.2N*J	R	R	R	R	R	R
sodium	211BJ	157BJ	490B	144BJ	178BJ	370B	99.1BJ
thallium	0.48BWJ	--	--	0.46BWJ	0.36B	1.1B	0.55B
vanadium	17.6	26.4	11.1B	67.5	12.6	15.9	30.0
zinc	31,600*J	360*J	845*J	635*J	159*J	4,740*J	113*J
cyanide	--	--	--	0.97	--	--	--

-- Not detected.

+ TIC Chemical Abstracts Service (CAS) numbers, if available, are provided in parentheses.

Table 4-1 (Cont.)

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.

ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
N	Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi-quantitative.
*	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be quantitative or semi-quantitative.
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.
W	Post-digestion spike for furnace AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semiquantitative.
R	Results are unusable due to a major violation of QC protocols.	Analyte value is not usable.

5. DISCUSSION OF MIGRATION PATHWAYS

5.1 INTRODUCTION

This section presents discussions of data and information pertaining to potential migration pathways and targets of TCL compounds and TAL analytes that are possibly attributable to the WPC site.

The five migration pathways of concern discussed are groundwater, surface water, air, fire and explosion, and direct contact.

5.2 GROUNDWATER

In accordance with the U.S. EPA-approved work plan, groundwater samples were not collected during the SSI of the WPC site. TCL compounds were detected in on-site soil samples, including acetone (57,000 µg/kg in sample S3), benzo[b]fluoranthene (2,000 µg/kg in sample S5), 2-methylnaphthalene (2,500J µg/kg in sample S4), pyrene (1,600 µg/kg in sample S5), and the PCB Aroclor 1254 (1,700 µg/kg in sample S4).

TAL analytes were also detected in on-site soil samples including antimony (231N*J mg/kg), copper (168,000*J mg/kg), lead (9,170*J mg/kg), nickel (942*J mg/kg), and zinc (31,600*J mg/kg) in sample S1; and cyanide (0.97 mg/kg) and mercury (1.0NJ mg/kg) in sample S4.

In addition, several TICs were detected in on-site soil samples including benzo[e]pyrene (3,000J µg/kg in sample S5), 11H-benzo[a]-fluorene (1,000J µg/kg in sample S5), and benzenesulfonamide, 4-methyl (30,000J µg/kg in sample S3) (see Table 4-1 for definition and interpretation of the J qualifier).

The TCL compounds and TAL analytes detected in on-site soil samples are attributable to the site based on the following reasons.

- They were detected at levels above those of the background soil sample.
- TAL analytes were detected in surface soil sample S1, which was collected from an area where untreated coating waste was observed flowing onto the ground surface during the SSI.
- TCL compounds and TAL analytes were detected in soil samples collected near stressed vegetation and drums.
- The TCL compound acetone is a common constituent of the latex binders/polymers used in the coating process (E & E 1989).
- Heavy metals are constituents of the coating waste generated at the WPC site. The textile pigments used in the coating process contain metal compounds such as copper phthalocyanine (see Table 2-1) (Evans 1991).
- The Georgia clay used as the primary component in the coating mixture has a high zinc content (Evans 1991).

The potential exists for TCL compounds and TAL analytes detected in on-site soil samples to migrate to groundwater in the vicinity of the site, based on the following information.

- Mafcote-Wabash is currently using a 5,000-gallon UST to hold coating waste containing heavy metals prior to treatment (Evans 1991). The structural composition and condition of the UST are not known.

- During the SSI, FIT observed coating waste overflowing from an aboveground vent and cover of the UST onto the ground.
- During the SSI, FIT observed the open dumpster containing treated coating waste sludge leaking a liquid onto the ground surface.

The potential for TCL compounds and TAL analytes detected in on-site soil samples to migrate to groundwater in the vicinity of the site is also based on the geology of the area.

Glacial geology in the vicinity of the site is a result of Pleistocene-age Wisconsinan glaciation and consists of unconsolidated valley-train deposits of clay-rich till, gravel, sand, and silt. Till deposits north of the WPC site also include some ground moraine ice-contact stratified drift. Recent alluvial deposits of silt, sand, and gravel of the Martinsville Formation are present along the Wabash River (Indiana Department of Natural Resources [IDNR] 1971). Glacial geology south of the site and parallel to the Wabash River is part of the buried valley system known as the Teays Buried Valley (IDNR 1985). Bedrock in the vicinity of the WPC site is composed of Silurian-age limestone that forms the Liston Creek Limestone Member (IDNR 1971).

Area well logs indicate that glacial deposits range in thickness from approximately 3 feet to as much as 200 feet in the Teays Buried Valley, which is located approximately 2 1/2 miles south of the site. A well log for a well located directly west of the WPC site indicates that glacial deposits are approximately 31 feet in thickness (see Appendix E for well logs of the area of the site).

According to area well logs, the unconsolidated sand and gravel deposits and the limestone bedrock beneath the site each form an aquifer that is used for drinking water within a 3-mile radius of the WPC site. Municipal wells and some private wells draw drinking water from the sand and gravel deposits at depths ranging from 20 to 45 feet. Other private wells are set in and draw drinking water from the limestone unit at depths between 30 and 68 feet.

The area well logs also indicate the presence of impermeable clay layers within the unconsolidated deposits. However, these clay layers

are not laterally continuous within a 3-mile radius of the site. Therefore, the glacial drift aquifer is hydraulically connected to the bedrock aquifer and together they form a single aquifer of concern (AOC). The well log for an industrial well located 1/4 mile from the WPC site indicates that depth to the AOC is approximately 23 feet. The nearest drinking water well is located approximately 1 mile from the site.

Groundwater flow in the area is complex because of the hydraulic connection between the glacial drift and bedrock aquifers. However, flow through the unconsolidated deposits of the Wabash River floodplain is believed to be south toward the Wabash River (Clarke 1980).

The city of Wabash is served by the Indiana Cities Water Corporation municipal water system and obtains water from two well fields. One well field is located approximately 1 1/2 miles southeast of the site, approximately 2,000 feet east of Union Chapel Road, and consists of seven wells ranging in depth from 60 to 67 feet which draw from the sand and gravel glacial deposits (Heiner 1991). The second well field is located just over 3 miles southwest of the site, west of Yankee Road, and consists of two wells with depths of 187 feet and 203 feet, which draw from the Teays Buried Valley glacial deposits (Heiner 1991).

Water from the two well fields is blended before distribution and is supplied to all residents living within the corporate boundaries of the city of Wabash (Heiner 1991). Approximately 12,150 persons living within the city limits of Wabash are served by the municipal water system (Heiner 1991). In addition, approximately 850 persons are served by private wells screened in the AOC. The population using private wells was determined by counting the number of houses (308) within a 3-mile radius of the WPC site, but outside Wabash municipal water boundaries, on United States Geological Survey (USGS) topographic maps and multiplying that figure by 2.76, the persons-per-household average for Wabash County (U.S. Bureau of the Census 1982; USGS 1963, 1963a, 1969, 1969a). Therefore, the total potential target population is 13,000 persons.

5.3 SURFACE WATER

The surface water body most likely to be affected by the migration of TCL compounds and TAL analytes from the site is the Wabash River,

which flows from east to west approximately 1,500 feet south of the WPC site. However, a potential does not exist for TCL compounds and TAL analytes to migrate to surface water based on the following information.

- The intervening terrain between the site and the river has a downward slope of only approximately 1% (USGS 1963, 1963a, 1969, 1969a).
- FIT did not observe any drainage pathways leading from the site to the river.

The Wabash River is not used as a source of drinking water within 3 miles downstream of the site. The Wabash River is used for recreation, including fishing and boating, near the WPC site (Payne 1988).

5.4 AIR

A release of TCL compounds or TAL analytes to the air was not documented during the SSI of the WPC site. During the reconnaissance inspection, FIT site-entry instruments (OVA, explosimeter, and colorimetric monitoring tubes for hydrogen cyanide) did not detect levels that deviated from background concentrations at the site. In accordance with the U.S. EPA-approved work plan, further air monitoring was not conducted by FIT.

A potential does exist for TCL compounds and TAL analytes to migrate from the site via windblown particulates, based on the following information.

- TCL compounds and TAL analytes were detected in on-site surface soil samples at concentrations above background.
- No natural or man-made wind barriers exist on-site.
- The ground near a dumpster containing sludge and a UST holding coating waste is only partially covered by vegetation. The grass is either stressed or dead in most of the area.

- Sawdust is mixed with coating waste sludge possibly containing heavy metals and is stored in an open dumpster on-site. The sawdust particles may become airborne and migrate off-site.

The population within a 4-mile radius of the site potentially affected by a release of TCL compounds and TAL analytes to the air is approximately 16,612 persons. This population includes the population of the city of Wabash (12,985) and the number of persons living outside the city limits but within a 4-mile radius of the site. The number of persons living outside the city limits was calculated by counting houses (1,314) within a 4-mile radius of the site on a USGS topographic map (USGS 1963, 1963a, 1969, 1969a) and multiplying this number by a persons-per-household value of 2.76 (U.S. Bureau of the Census 1982).

5.5 FIRE AND EXPLOSION

According to federal, state, and local file information reviewed by FIT, and an interview with Mike McMullet, Fire Chief, Wabash Fire Department, no documentation exists of an incident of fire or explosion at the site (McMullet 1990). According to FIT observations and site-entry equipment readings, no potential for fire or explosion existed at the site at the time of the SSI.

5.6 DIRECT CONTACT

According to federal, state, and local file information reviewed by FIT, observations made during the SSI, and the interview with the site representative, no incidents of direct contact with TCL compounds or TAL analytes at the WPC site have been documented.

A potential exists for direct contact with TCL compounds or TAL analytes detected on-site based on the following information.

- TCL compounds and TAL analytes were detected in surface soil samples at concentrations above background.
- The site is currently active.

- There are no natural boundaries, fences, or other security measures to restrict access to the site.
- The site is located in a mixed residential, commercial, and industrial area, with residences located less than 500 feet from the site.

The population within a 1-mile radius of the site potentially affected through direct contact with TCL compounds and TAL analytes at the site is approximately 6,000 persons. This population was calculated by using a planimeter to determine the portion of the population that resides within the city limits of Wabash and within a 1-mile radius of the site. In addition, approximately 13 persons are employed at the WPC site.

6. REFERENCES

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7185:9

APPENDIX A

SITE 4-MILE RADIUS MAP

SDMS US EPA Region V

Imagery Insert Form

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OVERSIZE MAP – 4 MILE RADIUS MAP

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APPENDIX B

U.S. EPA FORM 2070-13



POTENTIAL HAZARDOUS WASTE SITE
- SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

IDENTIFICATION

01 STATE 02 SITE NUMBER
IN 0781961501

II. SITE NAME AND LOCATION

01 SITE NAME *AKA Mafcate-Wabash Paper Coatings*
Wabash Paper Coating
02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
410 S. Carroll St.
03 CITY
Wabash
04 STATE 05 ZIP CODE 06 COUNTY 07 COUNTY CODE 08 CONG DIST
IN 46992 Wabash 169 05
09 COORDINATES
LATITUDE 40° 42' 33" LONGITUDE 85° 49' 52"
10 TYPE OF OWNERSHIP ☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

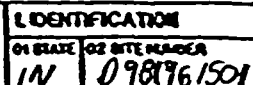
01 DATE OF INSPECTION 4.17.91
02 SITE STATUS ☒ ACTIVE ☐ INACTIVE
03 YEARS OF OPERATION 1965 Present UNKNOWN
04 AGENCY PERFORMING INSPECTION ☒ A. EPA ☒ B. EPA CONTRACTOR Ecology & Environment ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR ☐ E. STATE ☐ F. STATE CONTRACTOR ☐ G. OTHER

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Deborah Epstein	Civil Engineer	E & E	(312) 663-9415
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Scott Turek	Geologist	E & E	(312) 663-9415
Mary Tierney	Biologist	E & E	(312) 663-9415
Michael Dieckhaus	Biologist	E & E	(312) 663-9415
Patrick Soderberg	Botanist	E & E	(312) 663-9415
Mikhail Gumin	Mechanical Engineer	E & E	(312) 663-9415
13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
Daryl Evans	Operations Manager	410 S. Carroll St. Wabash, Indiana 46992	(312) 563-4181
			()
			()
			()
			()
			()
			()
			()

17 ACCESS GAINED BY ☒ PERMISSION ☐ WARRANT
18 TIME OF INSPECTION 9:15 am - 5:30 am
19 WEATHER CONDITIONS Partly sunny ~67°F

IV. INFORMATION AVAILABLE FROM

01 CONTACT Harry Atkinson
02 OF *Ecology & Environment* IDEM/SHWM
03 TELEPHONE NO. (312) 32-8927
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM Deborah Epstein
05 AGENCY EPA-FIT
06 ORGANIZATION Ecology & Environment
07 TELEPHONE NO. (312) 663-9415
08 DATE 7.8.91
MONTH DAY YEAR



03 WASTE CHARACTERISTICS

<input checked="" type="checkbox"/> A. TOXIC	<input type="checkbox"/> DE SOLUBLE	<input type="checkbox"/> I. HIGHLY VOLATILE
<input checked="" type="checkbox"/> B. COMBUSTIVE	<input checked="" type="checkbox"/> INF INFECTION	<input type="checkbox"/> J. EXPLOSIVE
<input type="checkbox"/> C. RADIOACTIVE	<input checked="" type="checkbox"/> RE FLAMMABLE	<input type="checkbox"/> K. REACTIVE
<input checked="" type="checkbox"/> D. PERSISTENT	<input type="checkbox"/> G. CONTAINABLE	<input type="checkbox"/> L. INCOMPATIBLE
		<input type="checkbox"/> M. NOT APPLICABLE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COLLAGES
SUW	SUDGE	6 1/4	yd ³	bimonthly - treated coating waste
OLW	OLY WASTE			Sudge
SOL	SOLVENTS	UNKNOWN		
PSO	PESTICIDES			
OCG	OTHER ORGANIC CHEMICALS	UNKNOWN		
IOG	INORGANIC CHEMICALS	UNKNOWN		cyanide, PAHs detected in soil samples
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	UNKNOWN		waste water generated by paper coating process - contains heavy metals.

[illegible]

CATEGORY	01 FEEDSTOCKNAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCKNAME	02 CAS NUMBER
FDS	Georgia Clay	unknown	FDS		
FDS			FDS		
FDS	See section 2, Table 2-1		FDS		
FDS			FDS		

FIT site inspection conducted on 4/17/91
State and FIT file information



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

1 IDENTIFICATION

01 STATE 02 SITE NUMBER
11/ 0981961501

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~13,000 04 NARRATIVE DESCRIPTION

see section 5.2 for Groundwater information

01 ☐ B. SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

see section 5.3 for surface water information

01 ☒ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 16,612 04 NARRATIVE DESCRIPTION

see section 5.4 - Air Route

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

see section 5.5 - Fire and Explosion

01 ☒ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~6,000 04 NARRATIVE DESCRIPTION

see section 5.6 - Direct Contact

01 ☒ F. CONTAMINATION OF SOIL 02 ☐ OBSERVED (DATE: 4/12/91) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: ~1 1/4 Pond 04 NARRATIVE DESCRIPTION

see section 5.2 and Table 4-1

01 ☒ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~13,000 04 NARRATIVE DESCRIPTION

see section 5.2 - Groundwater

01 ☒ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: 13 04 NARRATIVE DESCRIPTION

see section 5.6 - Direct Contact
~13 workers are employed at the site

01 ☒ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~16,612 04 NARRATIVE DESCRIPTION

see section 5.2, 5.4 and 5.6 for potential population exposure.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IN 0981961501

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ J. DAMAGE TO FLORA 02 ☒ OBSERVED (DATE: 4/17/91) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Stressed vegetation observed on-site.

01 ☒ K. DAMAGE TO FAUNA 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Damage to fauna could occur through contact with contaminated soil or by consuming contaminated flora.

01 ☒ L. CONTAMINATION OF FOOD CHAIN 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Soil contaminants detected by FIT could potentially bioaccumulate in the food chain.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES 02 ☒ OBSERVED (DATE: 4/17/91) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~16,612 04 NARRATIVE DESCRIPTION

Sludge mixed with sand/dust is stored in an open dumpster. Dumpster was leaking during SSI. Untreated waste flowed onto the ground surface instead of draining into a 5,000 gallon LST.

01 ☒ N. DAMAGE TO OFF-SITE PROPERTY 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Potential for damage to off-site property through groundwater and air migration of contaminants detected on-site.

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPS 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☒ ALLEGED
04 NARRATIVE DESCRIPTION

Wastewater containing heavy metals is discharged to the sewer system. ~~SSIs~~ allegations of high metal content in wastewater discharged to sewers, however, FIT has no documentation of sewer contamination.

01 ☐ P. ILLEGAL/AUTHORIZED DUMPING 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None documented

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

55-gallon drums, allegedly empty, are stored in a shed that has a dirt floor. Some drums were labelled flammable.

III. TOTAL POPULATION POTENTIALLY AFFECTED: ~16,612

IV. COMMENTS

Asbestos insulated piping was removed from the site in 1985.

V. SOURCES OF INFORMATION (List sources of information, e.g., documents, company records, interviews)

FIT and State File information
SSI conducted on April 17, 1991



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IN 0981961501

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED <i>(Check all that apply)</i>	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPDES	UNKNOWN			
<input type="checkbox"/> B. UIC	N/A			
<input type="checkbox"/> C. AIR	N/A			
<input type="checkbox"/> D. RCRA	N/A			
<input type="checkbox"/> E. RCRA INTERIM STATUS	N/A			
<input type="checkbox"/> F. SPCC PLAN	N/A			
<input checked="" type="checkbox"/> G. STATE <i>Consent</i>	00478	7/16/90	5/31/91	TDEN/OSHW/M permit to dispose of 460 yd ³ of paper coating sludge generated by Matco-K-Wabash Paper Coatings at Wabash Valley landfill.
<input type="checkbox"/> H. LOCAL <i>Consent</i>	UNKNOWN			
<input type="checkbox"/> I. OTHER <i>Consent</i>	N/A			
<input type="checkbox"/> J. NONE	N/A			

III. SITE DESCRIPTION

01 STORAGE/ DISPOSAL <i>(Check all that apply)</i>	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT <i>(Check all that apply)</i>	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCINERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input checked="" type="checkbox"/> C. DRUMS, ABOVEGROUND	55 gallon drums - may be empty		<input checked="" type="checkbox"/> C. CHEMICAL/PHYSICAL	2
<input type="checkbox"/> D. TANK, ABOVEGROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input checked="" type="checkbox"/> E. TANK, BELOWGROUND	5,000	gallon	<input type="checkbox"/> E. WASTE OIL PROCESSING	06 AREA OF SITE
<input type="checkbox"/> F. LANDFILL			<input type="checkbox"/> F. SOLVENT RECOVERY	1/4
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H. OPEN DUMP			<input type="checkbox"/> H. OTHER <i>Consent</i>	
<input checked="" type="checkbox"/> I. OTHER <i>Consent</i>	20	yd ³		

07 COMMENTS

Paper coating waste - is treated with aluminum sulfate, B-22 polymer and lime. The sludge is mixed with sawdust and stored in a dumpster. ~6 1/4 yd³ sludge is removed bimonthly. The wastewater is discharged to the sewer system. UST stores coating waste prior to treatment.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES *(Check all that apply)*

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ☒ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRAKS, DITCHES, UNITS, BARRIERS, ETC.

Containers were leaking and/or overflowing onto the ground surface. Drums, allegedly empty are stored in a dirt-floor shed.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO

02 COMMENTS

site is not fenced and no security or access restrictions exist. Waste is stored on-site in an open dumpster.

VI. SOURCES OF INFORMATION *(Check all that apply)*

FIT and state file information
SSI conducted on 4/17/91



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
11 0981961501

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY <small>(Check as applicable)</small>			02 STATUS			03 DISTANCE TO SITE	
	SURFACE	WELL	ENDANGERED	AFFECTED	MONITORED		
COMMUNITY	A. <input type="radio"/>	B. <input checked="" type="radio"/>	A. <input type="radio"/>	B. <input type="radio"/>	C. <input checked="" type="radio"/>	A. 1 1/2 mi	
NON-COMMUNITY	C. <input type="radio"/>	D. <input checked="" type="radio"/>	D. <input type="radio"/>	E. <input type="radio"/>	F. <input type="radio"/>	B. ~ mi	

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY OF SITE <input checked="" type="radio"/> A. ONLY SOURCE FOR DRINKING <input type="radio"/> B. DRINKING <small>(One source or more)</small> COMMERCIAL/INDUSTRIAL/RECREATION <small>(One or more sources or uses)</small> <input type="radio"/> C. COMMERCIAL/INDUSTRIAL/RECREATION <small>(One or more sources or uses)</small> <input type="radio"/> D. NOT USED/UNUSABLE				
02 POPULATION SERVED BY GROUNDWATER ~13,000			03 DISTANCE TO NEAREST DRINKING WATER WELL ~1 mi	
04 DEPTH TO GROUNDWATER 20 ft	05 DIRECTION OF GROUNDWATER FLOW Assumed South	06 DEPTH TO AQUIFER OF CONCERN 20 ft	07 POTENTIAL YIELD OF AQUIFER Unknown ft ³ /day	08 SOLE SOURCE AQUIFER <input type="radio"/> YES <input checked="" type="radio"/> NO

09 DESCRIPTION OF WELLS (including depth, type, and location relative to site) and other pertinent information
Two municipal well fields - 1 is located ~1 1/2 miles southwest of the site and contains 7 wells with depths ranging from 60 to 67 ft. A second well field is located ~3 miles southwest of the site and has 2 wells, one is 187 ft deep and the other is 203 ft deep. Both well fields draw from sand and gravel. Residential wells draw from limestone.

10 RECHARGE AREA <input checked="" type="radio"/> YES <input type="radio"/> NO		COMMENTS permeable soils	11 RECHARGE AREA <input checked="" type="radio"/> YES <input type="radio"/> NO		COMMENTS or sand and gravel Groundwater may recharge river
---	--	--------------------------	---	--	---

IV. SURFACE WATER

01 SURFACE WATER USE <input checked="" type="radio"/> A. RESERVOIR/RECREATION/DRINKING WATER SOURCE <input type="radio"/> B. IRRIGATION/ECONOMICALLY IMPORTANT RESOURCES <input type="radio"/> C. COMMERCIAL/INDUSTRIAL <input type="radio"/> D. NOT CURRENTLY USED			
02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER			
NAME		AFFECTED	DISTANCE TO SITE
		<input type="radio"/>	
		<input type="radio"/>	
		<input type="radio"/>	

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN			02 DISTANCE TO NEAREST POPULATION
ONE (1) MILE OF SITE A. 6,000 <small>NO. OF PERSONS</small>	TWO (2) MILES OF SITE B. ~12,700 <small>NO. OF PERSONS</small>	THREE (3) MILES OF SITE C. ~13,000 <small>NO. OF PERSONS</small>	~50 ft.
03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE ~4,600			04 DISTANCE TO NEAREST OFF-SITE BUILDING ~50 ft.

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural village, densely populated urban area)

Moderately populated residential, commercial area.
See Appendix A - 4 mile radius map



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

1. IDENTIFICATION

01 STATE 02 SITE NUMBER
IN 0981961501

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE

☐ A. $10^{-4} - 10^{-6}$ cm/sec ☐ B. $10^{-6} - 10^{-8}$ cm/sec ☐ C. $10^{-8} - 10^{-9}$ cm/sec ☒ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK

☐ A. IMPERMEABLE ☐ B. RELATIVELY IMPERMEABLE ☒ C. RELATIVELY PERMEABLE ☐ D. VERY PERMEABLE

03 DEPTH TO BEDROCK

~30 ft

04 DEPTH OF CONTAMINATED SOIL ZONE

UNKNOWN ft

05 SOIL pH

UNKNOWN

06 NET PRECIPITATION

~3.68 in

07 ONE YEAR 24 HOUR RAINFALL

2.2 in

08 SLOPE
SITE SLOPE

0 %

DIRECTION OF SITE SLOPE

N/A

TERRAIN AVERAGE SLOPE

~1 %

09 FLOOD POTENTIAL

SITE IS IN 100 YEAR FLOODPLAIN

10

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

N/A

11 DISTANCE TO WETLANDS

ESTUARINE

A. N/A ft

OTHER

B. 73 ft

12 DISTANCE TO CRITICAL HABITAT

73 ft

ENDANGERED SPECIES N/A

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

A. ~50 ft

RESIDENTIAL AREAS, NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

B. ~50 ft

AGRICULTURAL LANDS
PRAIRIE/LAND AQUACULTURE

C. UNKNOWN D. ~3/4 mi

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Refer to 4-mile radius map in Appendix A.

VII. SOURCES OF INFORMATION

FIT file information
SSI conducted on 4/17/91



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - SAMPLE AND FIELD INFORMATION

IDENTIFICATION

01 STATE 02 SITE NUMBER

IN 098RG1501

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER		ORGANIC SOIL SAMPLES	
WASTE		Wadsworth/Alert Laboratories	
AIR		4101 Shuffel Drive, N.W.	
RUNOFF		North Canton, Ohio 44720	
SPILL			
SOIL	7	INORGANIC SOIL SAMPLES	available
VEGETATION		Northern Laboratories	
OTHER		2400 Cumberland Drive Valparaiso, Indiana, 46383	

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
OVA	No readings above background
radiation monitor	No readings above background
explosimeters/O ₂ meter	No readings outside normal range
HCN monitor	No readings on-site

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF Ecology & Environment, Chicago, IL
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS Ecology & Environment, Inc. Chicago, IL

V. OTHER FIELD DATA COLLECTED

None

VI. SOURCES OF INFORMATION

FIT SSI conducted on 4/17/91

Laboratory Analytical Data



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

IDENTIFICATION

01 STATE 02 SITE NUMBER
IN 0981961501

I. CURRENT OWNER(S)				PARENT COMPANY (if applicable)													
01 NAME	Matco Industries			02 D+B NUMBER	unknown		03 NAME	N/A		04 D+B NUMBER							
05 STREET ADDRESS (P.O. Box, apt., etc.)	unknown			06 SIC CODE	unknown		07 STREET ADDRESS (P.O. Box, apt., etc.)				08 SIC CODE						
09 CITY	Norwalk		10 STATE	CT	11 ZIP CODE	unknown		12 CITY			13 STATE		14 ZIP CODE				
01 NAME				02 D+B NUMBER			03 NAME				04 D+B NUMBER						
05 STREET ADDRESS (P.O. Box, apt., etc.)				06 SIC CODE			07 STREET ADDRESS (P.O. Box, apt., etc.)				08 SIC CODE						
09 CITY			10 STATE		11 ZIP CODE			12 CITY			13 STATE		14 ZIP CODE				
01 NAME	N/A			02 D+B NUMBER			03 NAME	N/A			04 D+B NUMBER						
05 STREET ADDRESS (P.O. Box, apt., etc.)				06 SIC CODE			07 STREET ADDRESS (P.O. Box, apt., etc.)				08 SIC CODE						
09 CITY			10 STATE		11 ZIP CODE			12 CITY			13 STATE		14 ZIP CODE				
01 NAME	N/A			02 D+B NUMBER			03 NAME	N/A			04 D+B NUMBER						
05 STREET ADDRESS (P.O. Box, apt., etc.)				06 SIC CODE			07 STREET ADDRESS (P.O. Box, apt., etc.)				08 SIC CODE						
09 CITY			10 STATE		11 ZIP CODE			12 CITY			13 STATE		14 ZIP CODE				
II. PREVIOUS OWNER(S) (List and name only)														III. REALTY OWNER(S) (List and name only)			
01 NAME	Millen Industries			02 D+B NUMBER	unknown		03 NAME	N/A			04 D+B NUMBER						
05 STREET ADDRESS (P.O. Box, apt., etc.)	444 Park Avenue South			06 SIC CODE	unknown		07 STREET ADDRESS (P.O. Box, apt., etc.)				08 SIC CODE						
09 CITY	New York		10 STATE	NY	11 ZIP CODE			12 CITY			13 STATE		14 ZIP CODE				
01 NAME	MA			02 D+B NUMBER			03 NAME	N/A			04 D+B NUMBER						
05 STREET ADDRESS (P.O. Box, apt., etc.)				06 SIC CODE			07 STREET ADDRESS (P.O. Box, apt., etc.)				08 SIC CODE						
09 CITY			10 STATE		11 ZIP CODE			12 CITY			13 STATE		14 ZIP CODE				
01 NAME	unknown			02 D+B NUMBER			03 NAME	N/A			04 D+B NUMBER						
05 STREET ADDRESS (P.O. Box, apt., etc.)				06 SIC CODE			07 STREET ADDRESS (P.O. Box, apt., etc.)				08 SIC CODE						
09 CITY			10 STATE		11 ZIP CODE			12 CITY			13 STATE		14 ZIP CODE				
IV. SOURCES OF INFORMATION (List and name only)																	
FIT and State File Information FIT SSI conducted on 4/17/91																	



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART B - OPERATOR INFORMATION

I. IDENTIFICATION

09 STATE 10 SITE NUMBER
IN 0981961501

II. CURRENT OPERATOR <small>(Provide if different than parent)</small>				OPERATOR'S PARENT COMPANY <small>(if applicable)</small>			
01 NAME Matcote Wabash Paper Coatings		02 D+B NUMBER (2A) 563-4181		10 NAME Matcote Industries		11 D+B NUMBER	
03 STREET ADDRESS <small>(P.O. Box, RFD, etc.)</small> 410 South Carroll Street		04 SIC CODE		12 STREET ADDRESS <small>(P.O. Box, RFD, etc.)</small>		13 SIC CODE	
05 CITY Wabash		06 STATE 07 ZIP CODE IN 46992		14 CITY Norwalk		15 STATE 16 ZIP CODE CT -	
08 YEARS OF OPERATION 1985-present		09 NAME OF OWNER Matcote Industries					
III. PREVIOUS OPERATOR(S) <small>(List maximum two previous only if different than parent)</small>				PREVIOUS OPERATOR'S PARENT COMPANIES <small>(if applicable)</small>			
01 NAME Wabash Paper Coatings		02 D+B NUMBER		10 NAME NA		11 D+B NUMBER	
03 STREET ADDRESS <small>(P.O. Box, RFD, etc.)</small> 410 South Carroll Street		04 SIC CODE		12 STREET ADDRESS <small>(P.O. Box, RFD, etc.)</small>		13 SIC CODE	
05 CITY Wabash		06 STATE 07 ZIP CODE IN 46992		14 CITY		15 STATE 16 ZIP CODE	
08 YEARS OF OPERATION 1965-1985		09 NAME OF OWNER DURING THIS PERIOD Millen Industries					
01 NAME Ford Meter Box		02 D+B NUMBER unknown		10 NAME NA		11 D+B NUMBER	
03 STREET ADDRESS <small>(P.O. Box, RFD, etc.)</small> unknown		04 SIC CODE		12 STREET ADDRESS <small>(P.O. Box, RFD, etc.)</small>		13 SIC CODE	
05 CITY unknown		06 STATE 07 ZIP CODE		14 CITY		15 STATE 16 ZIP CODE	
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME Foundry - unknown		02 D+B NUMBER		10 NAME N/A		11 D+B NUMBER	
03 STREET ADDRESS <small>(P.O. Box, RFD, etc.)</small>		04 SIC CODE		12 STREET ADDRESS <small>(P.O. Box, RFD, etc.)</small>		13 SIC CODE	
05 CITY		06 STATE 07 ZIP CODE		14 CITY		15 STATE 16 ZIP CODE	
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

IV. SOURCES OF INFORMATION (For specific information, e.g., State Dept, County Engineer, etc.)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IN 0981961501

II. ON-SITE GENERATOR

01 NAME
Matoke-Wabash Paper Coating
02 D+B NUMBER
(219) 563-4181
03 STREET ADDRESS (P.O. Box, Apt., etc.)
410 South Carroll Street
04 SIC CODE
05 CITY
Wabash
06 STATE 07 ZIP CODE
IN 46992

III. OFF-SITE GENERATOR(S)

01 NAME N/A	02 D+B NUMBER	01 NAME N/A	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, Apt., etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, Apt., etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME N/A	02 D+B NUMBER	01 NAME N/A	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, Apt., etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, Apt., etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME Wabash Valley Refuse Removal	02 D+B NUMBER unknown	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, Apt., etc.) Box 406	04 SIC CODE	03 STREET ADDRESS (P.O. Box, Apt., etc.)	04 SIC CODE
05 CITY Wabash	06 STATE 07 ZIP CODE IN 46992	05 CITY	06 STATE 07 ZIP CODE
01 NAME N/A	02 D+B NUMBER	01 NAME N/A	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, Apt., etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, Apt., etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (List specific references, e.g., interviews, sample analysis, records)

FIT and state file information
SSI conducted on 4/17/91



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

1. IDENTIFICATION

01 STATE 02 SITE NUMBER

IN 09819 61501

2. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ D. SPILLED MATERIAL REMOVED
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ E. CONTAMINATED SOIL REMOVED
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ F. WASTE REPACKAGED
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ G. WASTE DISPOSED ELSEWHERE
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ H. ON SITE BURIAL
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ I. IN SITU CHEMICAL TREATMENT
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ J. IN SITU BIOLOGICAL TREATMENT
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ K. IN SITU PHYSICAL TREATMENT
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ L. ENCAPSULATION
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ M. EMERGENCY WASTE TREATMENT
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ N. CUTOFF WALLS
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ O. EMERGENCY DRAIN/SURFACE WATER DIVERSION
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ P. CUTOFF DITCH/SEEP
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ Q. SUBSURFACE CUTOFF WALL
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

11/ 0961761501

II. PAST RESPONSE ACTIVITIES

01 ☐ A. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

N/A

02 DATE

03 AGENCY

01 ☐ B. CAPPING COVERING
04 DESCRIPTION

N/A

02 DATE

03 AGENCY

01 ☐ C. BULK TANKAGE REPAIRED
04 DESCRIPTION

N/A

02 DATE

03 AGENCY

01 ☐ D. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

N/A

02 DATE

03 AGENCY

01 ☐ E. BOTTOM SEALED
04 DESCRIPTION

N/A

02 DATE

03 AGENCY

01 ☐ F. GAS CONTROL
04 DESCRIPTION

N/A

02 DATE

03 AGENCY

01 ☐ G. FIRE CONTROL
04 DESCRIPTION

N/A

02 DATE

03 AGENCY

01 ☐ H. LEACHATE TREATMENT
04 DESCRIPTION

N/A

02 DATE

03 AGENCY

01 ☐ I. AREA EMUCUATED
04 DESCRIPTION

N/A

02 DATE

03 AGENCY

01 ☐ J. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

N/A

02 DATE

03 AGENCY

01 ☐ K. POPULATION RELOCATED
04 DESCRIPTION

N/A

02 DATE

03 AGENCY

01 ☐ L. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE

03 AGENCY

III. SOURCES OF INFORMATION (List specific references, e.g., data files, reports, records)

Fit file information



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

1. IDENTIFICATION

01 STATE 02 SITE NUMBER

1 AL 0981961501

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

Refer to Section 2-3 Site History

III. SOURCES OF INFORMATION (For specific references, e.g., state files, sample analysis, records)

FIT File Information

APPENDIX C

FIT SITE PHOTOGRAPHS

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Wabash Paper Coatings, Inc.

PAGE 1 OF 16

U.S. EPA ID: IN0981961501

TDD: F05-8802-004

PAN: F1N066258

DATE: 4/17/91

TIME: 1330

DIRECTION OF PHOTOGRAPH:

N

WEATHER CONDITIONS:

partly sunny

~67°F

PHOTOGRAPHED BY:

D. Epstein

SAMPLE ID (if applicable):

51

DESCRIPTION: closeup of sample 51



DATE: 4/17/91

TIME: 1330

DIRECTION OF PHOTOGRAPH:

N

WEATHER CONDITIONS:

partly sunny

~67°F

PHOTOGRAPHED BY:

D. Epstein

SAMPLE ID (if applicable):

51

DESCRIPTION: perspective of sample 51; collected from an

area of blackened and stressed vegetation located approximately 15 feet
southeast of the manhole cover to the VST



FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: - Wabash Paper Coatings, Inc. PAGE 2 OF 16

U.S. EPA ID: IN0981961501 TDD: F05-8802-004 PAN: FIN06625B

DATE: 4/17/91

TIME: 1340

DIRECTION OF PHOTOGRAPH:

NW

WEATHER CONDITIONS:

partly sunny

~67°F

PHOTOGRAPHED BY:

D. Epstein

SAMPLE ID (if applicable):

S2

DESCRIPTION:

closeup of Sample S2



DATE: 4/17/91

TIME: 1340

DIRECTION OF PHOTOGRAPH:

NW

WEATHER CONDITIONS:

partly sunny

~67°F

PHOTOGRAPHED BY:

D. Epstein

SAMPLE ID (if applicable):

DESCRIPTION:

perspective of sample S2; collected from an

area of stressed vegetation next to the manhole cover to the UST



FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Wabash Paper Coatings, Inc. PAGE 3 OF 18

U.S. EPA ID: 1N0981961501 TDD: F05-8802-004 PAN: FIN0662SR

DATE: 4/17/91

TIME: 1330

DIRECTION OF PHOTOGRAPH:

S

WEATHER CONDITIONS:

partly sunny

~67°F

PHOTOGRAPHED BY:

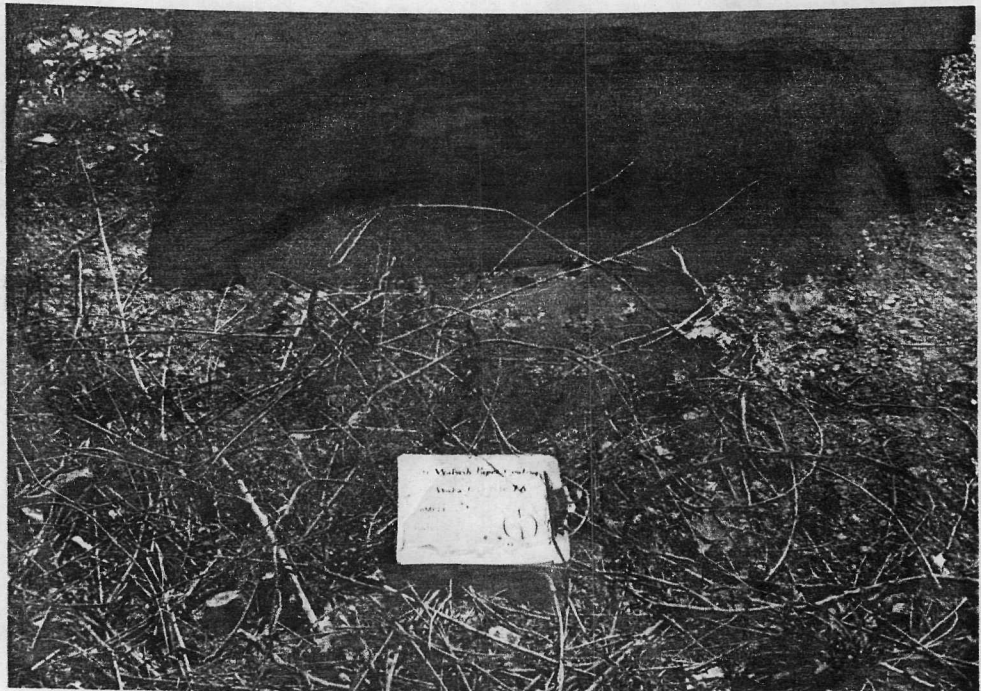
D. Epstein

SAMPLE ID (if applicable):

S3

DESCRIPTION:

closeup of sample S3



DATE: 4/17/91

TIME: 1330

DIRECTION OF PHOTOGRAPH:

S

WEATHER CONDITIONS:

partly sunny

~67°F

PHOTOGRAPHED BY:

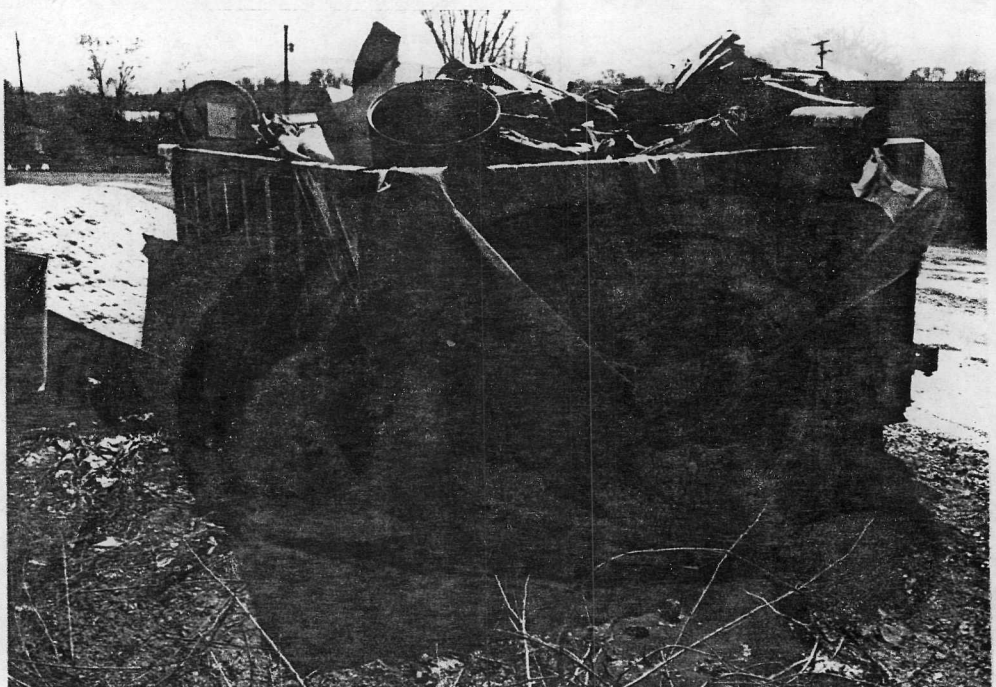
D. Epstein

SAMPLE ID (if applicable):

S3

DESCRIPTION:

perspective of sample S3; collected from a puddle of a liquid leaking from the northern edge of the refuse/sludge dumpster.



FIELD PHOTOGRAPHY LOG SHEET

SITE NAME:

Wabash Paper Coating

PAGE 4 OF 16

U.S. EPA ID: 1N0981961501

TDD: F05-8802-004

PAN: F1N066258

DATE: 4/17/91

TIME: 1407

DIRECTION OF PHOTOGRAPH:

N

WEATHER CONDITIONS:

partly sunny

~67°F

PHOTOGRAPHED BY:

D. Epstein

SAMPLE ID (if applicable):

54

DESCRIPTION:

closeup of sample 54



DATE: 4/17/91

TIME: 1407

DIRECTION OF PHOTOGRAPH:

N

WEATHER CONDITIONS:

partly sunny

~67°F

PHOTOGRAPHED BY:

D. Epstein

SAMPLE ID (if applicable):

54

DESCRIPTION:

perspective of sample 54; collected from soil

beneath a crusty, yellow substance and stressed vegetation.



FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: - Wabash Paper Coating PAGE 5 OF 16

U.S. EPA ID: 1N0981961501 TDD: F05-8802-04 PAN: F1N06625B

DATE: 4/17/91

TIME: 1520

DIRECTION OF PHOTOGRAPH: E

WEATHER CONDITIONS: partly sunny
~67°F

PHOTOGRAPHED BY: D. Epstein

SAMPLE ID (if applicable): SS



DESCRIPTION: closeup of sample SS

DATE: 4/17/91

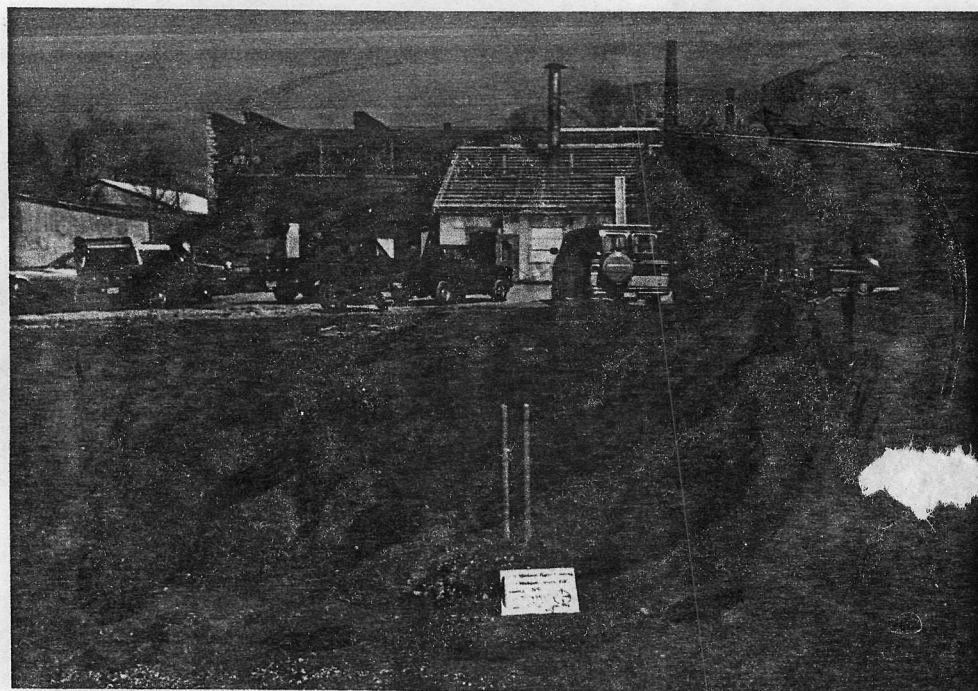
TIME: 1520

DIRECTION OF PHOTOGRAPH: E

WEATHER CONDITIONS: partly sunny
~67°F

PHOTOGRAPHED BY: D. Epstein

SAMPLE ID (if applicable): SS



DESCRIPTION: perspective of sample SS, collected from an area of blackened soil and stressed vegetation west of the parking lot at the north end of the site.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Mafco - Wabash Paper Coating

PAGE 6 OF 16

U.S. EPA ID: IN098/96/501

TDD: F05-8802-004

PAN: F/IN0662

DATE: 4/17/91

TIME: 1452

DIRECTION OF
PHOTOGRAPH:

N

WEATHER
CONDITIONS:

partly sunny

~67°F

PHOTOGRAPHED BY:

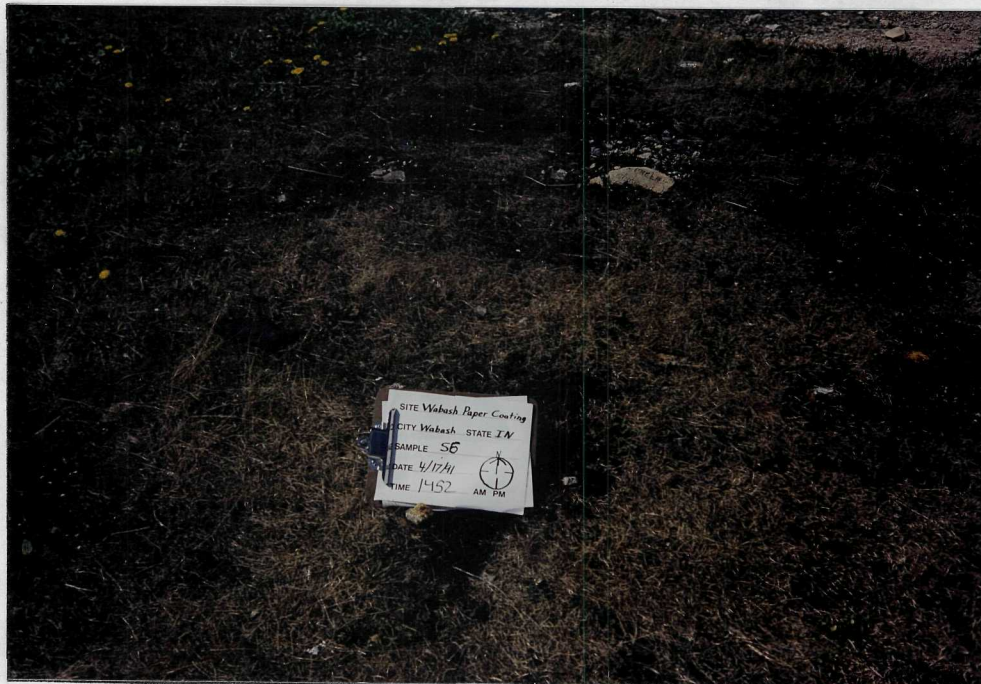
D. Epstein

SAMPLE ID
(if applicable):

56

DESCRIPTION:

closeup of sample 56



DATE: 4/17/91

TIME: 1452

DIRECTION OF
PHOTOGRAPH:

N

WEATHER
CONDITIONS:

partly sunny

~67°F

PHOTOGRAPHED BY:

D. Epstein

SAMPLE ID
(if applicable):

56

DESCRIPTION:

perspective of sample 56; collected
from an area of stressed vegetation approximately 20 feet
southwest of the semitrailers.



SITE NAME: Wabash Paper Coating Inc PAGE 7 OF 16

U.S. EPA ID: IND981961501 TOD: F05-8802-004 PAN: FIN0662

DATE: _____

TIME: _____

DIRECTION OF
PHOTOGRAPH:

WEATHER
CONDITIONS:

PHOTOGRAPHED BY:

SAMPLE ID
(if applicable):

DESCRIPTION: Closeup of sample S7 unavailable
due to processing difficulties

DATE: 4/17/91

TIME: 1645

DIRECTION OF
PHOTOGRAPH:
S

WEATHER
CONDITIONS:
Partly Sunny

~67° F

PHOTOGRAPHED BY:
D. Epstein

SAMPLE ID
(if applicable):
S7

DESCRIPTION: _____

Perspective of sample S7 (background)
residential area; 184 Middle Street, Wabash, Indiana



SI011(2/25/89)

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Wabash Paper Coating, Inc

PAGE 8 OF 16

U.S. EPA ID: IND981961501 TDD: F05-8802-004

PAN: FI 10662

DATE: > 4/12/91

TIME: > 1500

DIRECTION OF
PHOTOGRAPH:

> W

WEATHER
CONDITIONS:

> Partly Sunny

> ~67°F

PHOTOGRAPHED BY:

> D- Epstein

SAMPLE ID
(if applicable):

>



DESCRIPTION: >

> Front of building facing Carroll Street

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Webush Paper Coatings Inc.

PAGE 9 OF 16

U.S. EPA ID: 1N0981961501

TDD: F05-8802-004

PAN: F1N06625B



DATE: 4/17/91 TIME: 1500 DIRECTION OF PHOTOGRAPH: S PHOTOGRAPHED BY: D. Epstein

WEATHER CONDITIONS: partly sunny ~67°F SAMPLE ID (if applicable): _____

DESCRIPTION: Northern side of building; foreground has visible train tracks

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME:

Wabash Paper Coating

PAGE 10 OF 16

U.S. EPA ID: IN0981961501

TDD: F05-8802-004

PAN: F1N0662SB

DATE: 4/17/91

TIME: 1530

DIRECTION OF
PHOTOGRAPH:

N

WEATHER
CONDITIONS:

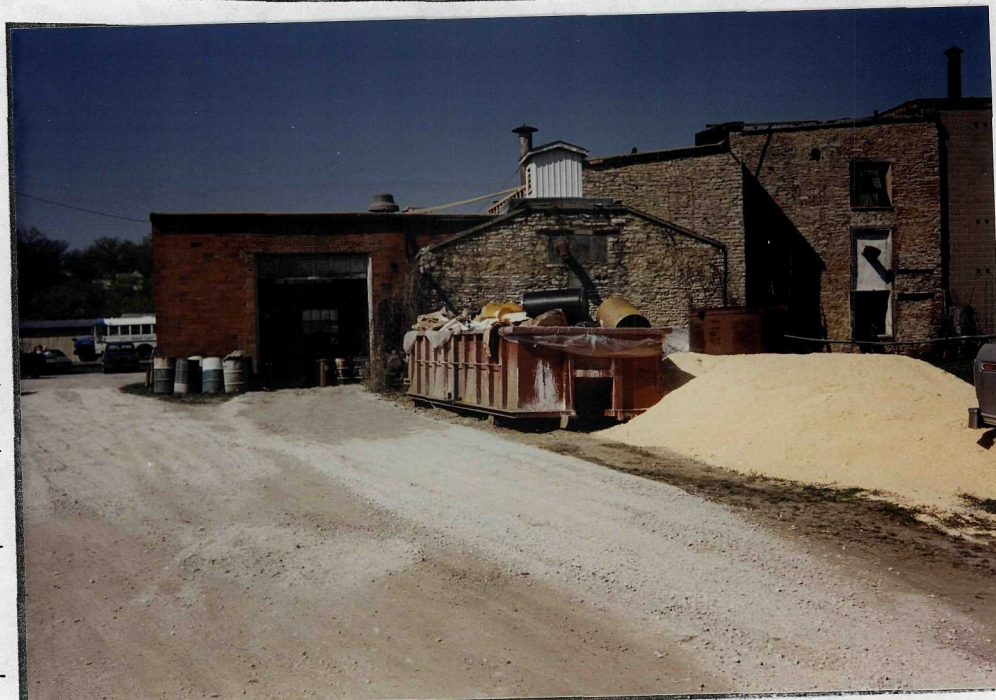
partly sunny

~67°F

PHOTOGRAPHED BY:

D. Epstein

SAMPLE ID
(if applicable):



DESCRIPTION:

View of western end of building; red brick

portion is paper-coating area. Refuse/sludge dumpster and
sand for mixing with sludge are in foreground.

DATE: 4/17/91

TIME: 1535

DIRECTION OF
PHOTOGRAPH:

E

WEATHER
CONDITIONS:

partly sunny

~67°F

PHOTOGRAPHED BY:

D. Epstein

SAMPLE ID
(if applicable):



DESCRIPTION:

maintenance shed; roof is being repaired.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Wabash Paper Coating

PAGE 11 OF 16

U.S. EPA ID: 1N0981961501

TDD: FOS-8802-004

PAN: F1N06625B

DATE: 4/17/91

TIME: 1350

DIRECTION OF PHOTOGRAPH:

E

WEATHER CONDITIONS:

partly sunny

~67°F

PHOTOGRAPHED BY:

D. Epstein

SAMPLE ID (if applicable):



DESCRIPTION: drain and pipes leading to underground storage tank.

DATE: 4/17/91

TIME: 1350

DIRECTION OF PHOTOGRAPH:

E

WEATHER CONDITIONS:

partly sunny

~67°F

PHOTOGRAPHED BY:

D. Epstein

SAMPLE ID (if applicable):



DESCRIPTION: drain and pipes leading to underground storage tank.

manhole cover is entrance to underground storage tank

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Wabash Paper Coating

PAGE 12 OF 15

U.S. EPA ID: 1N0981961501

TDD: F05-8802-004

PAN: F1N0662SB



DATE: 4/17/91 TIME: 1350 DIRECTION OF PHOTOGRAPH: NE PHOTOGRAPHED BY: D. Epstein

WEATHER CONDITIONS: partly sunny ~67°F SAMPLE ID (if applicable): _____

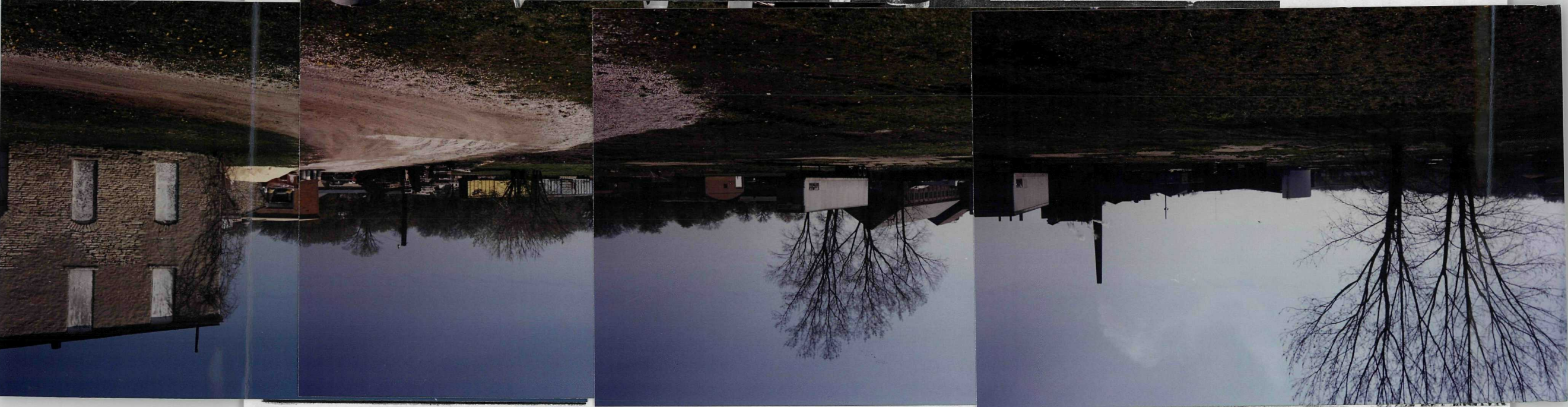
DESCRIPTION: drain and pipe leading from treatment sink inside building to underground
Storage tank. Bi-level portion of building is warehouse/storage area for paper cores and finished products

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Wabash Paper Coating

PAGE 13 OF 16

U.S. EPA ID: WJ0981961501 TDD: E05-8802-004 PAN: F1N066258



DATE: 4/17/91 TIME: 1500 DIRECTION OF PHOTOGRAPH: NW PHOTOGRAPHED BY: A. Epstein
WEATHER CONDITIONS: partly sunny ~63°F SAMPLE ID (if applicable):
DESCRIPTION: property boundary of Mafco-Wabash Paper Coating is west of the
semi-trailers. Dirt access road leads from Carroll St. to parking lot on north side of
Mafco-Wabash.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Wabash Paper Coating

PAGE 14 OF 16

U.S. EPA ID: IN0901961501

TDD: F05-8802-004

PAN: F1N0662SB



DATE: 4/17/91 TIME: 1500 DIRECTION OF PHOTOGRAPH: E PHOTOGRAPHED BY: D. Epstein

WEATHER CONDITIONS: partly sunny ~67°F SAMPLE ID (if applicable): _____

DESCRIPTION: view of Matcoke Wabash facing east showing refuse dumpster and
wooden pallets.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME:

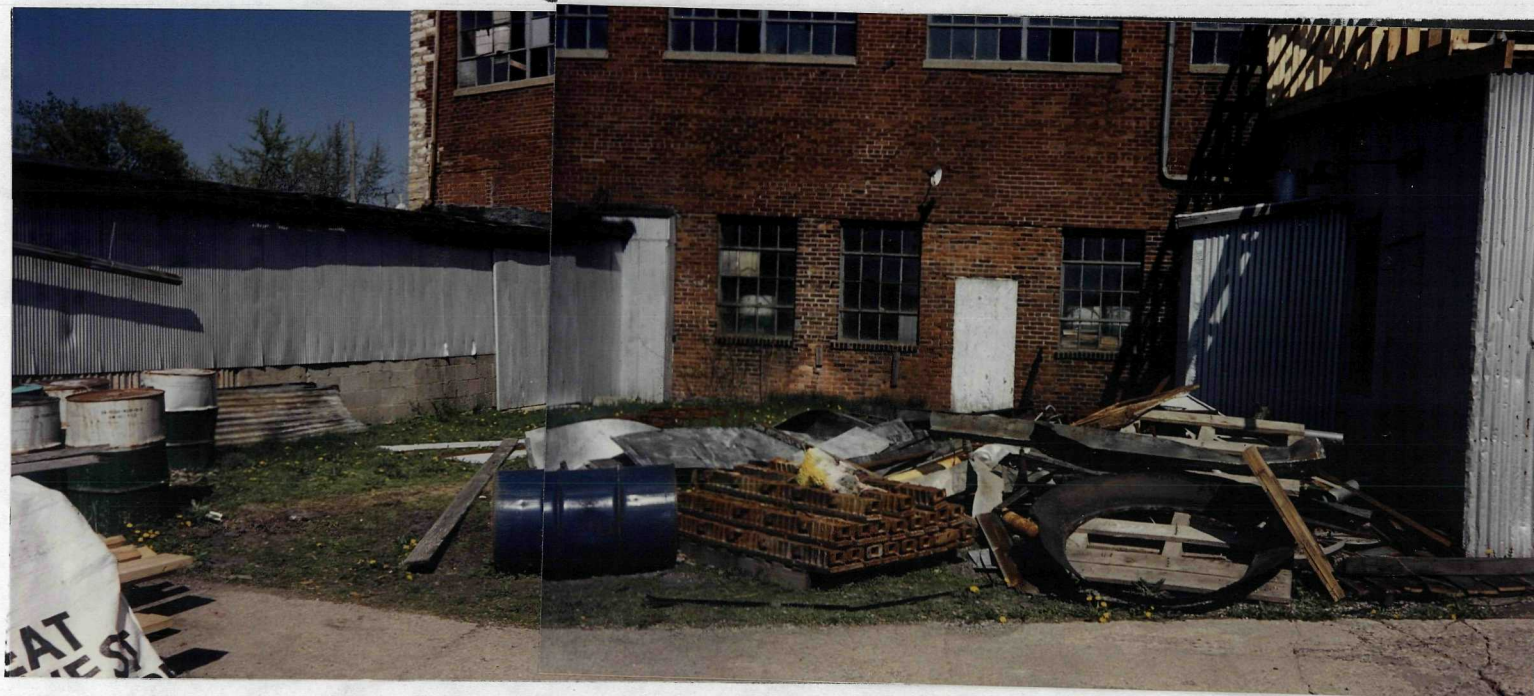
- Wabash Paper Coating

PAGE 15 OF 16

U.S. EPA ID: 1N0981961501

TDD: F05-8802-004

PAN: F1N0662SB



DATE: 4/17/91 TIME: 1530 DIRECTION OF PHOTOGRAPH: E PHOTOGRAPHED BY: A. Epstein

WEATHER CONDITIONS: partly sunny ~67°F SAMPLE ID (if applicable):

DESCRIPTION: Maintenance shed is on the south. Debris in foreground is from roof repair of the maintenance shed.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Wabash Paper Coating

PAGE 16 OF 16

U.S. EPA ID: 1N0981961501

TDD: F05-8802-004

PAN: F1N066258



DATE: 4/17/91 TIME: 1530 DIRECTION OF PHOTOGRAPH: N PHOTOGRAPHED BY: D. Epstein

WEATHER CONDITIONS: partly sunny ~67°F SAMPLE ID (if applicable): _____

DESCRIPTION: parking lot facing drum storage shed.

APPENDIX D

**U.S. EPA TARGET COMPOUND LIST AND
TARGET ANALYTE LIST
QUANTITATION/DETECTION LIMITS**

Contract Laboratory Program
Target Compound List
Quantitation Limits

COMPOUND	CAS #	WATER	SOIL
			SEDIMENT SLUDGE
Chloromethane	74-87-3	10 ug/L	10 ug/Kg
Bromomethane	74-83-9	10	10
Vinyl chloride	75-01-4	10	10
Chloroethane	75-00-3	10	10
Methylene chloride	75-09-2	5	5
Acetone	67-64-1	10	5
Carbon disulfide	75-15-0	5	5
1,1-dichloroethene	75-35-4	5	5
1,1-dichloroethane	75-34-3	5	5
1,2-dichloroethene (total)	540-59-0	5	5
Chloroform	67-66-3	5	5
1,2-dichloroethane	107-06-2	5	5
2-butanone (MEK)	78-93-3	10	10
1,1,1-trichloroethane	71-55-6	5	5
Carbon tetrachloride	56-23-5	5	5
Vinyl acetate	108-05-4	10	10
Bromodichloromethane	75-27-4	5	5
1,2-dichloropropane	78-87-5	5	5
cis-1,3-dichloropropene	10061-01-5	5	5
Trichloroethene	79-01-6	5	5
Dibromochloromethane	124-48-1	5	5
1,1,2-trichloroethane	79-00-5	5	5
Benzene	71-43-2	5	5
Trans-1,3-dichloropropene	10061-02-6	5	5
Bromoform	75-25-2	5	5
4-Methyl-2-pentanone	108-10-1	10	10
2-Hexanone	591-78-6	10	10
Tetrachloroethene	127-18-4	5	5
Toluene	108-88-3	5	5
1,1,2,2-tetrachloroethane	79-34-5	5	5
Chlorobenzene	108-90-7	5	5
Ethyl benzene	100-41-4	5	5
Styrene	100-42-5	5	5
Xylenes (total)	1330-20-7	5	5

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Phenol	108-95-2	10 ug/L	330 ug/Kg
bis(2-Chloroethyl) ether	111-44-4	10	330
2-Chlorophenol	95-57-8	10	330
1,3-Dichlorobenzene	541-73-1	10	330
1,4-Dichlorobenzene	106-46-7	10	330
Benzyl Alcohol	100-51-6	10	330
1,2-Dichlorobenzene	95-50-1	10	330
2-Methylphenol	95-48-7	10	330
bis(2-Chloroisopropyl) ether	108-60-1	10	330
4-Methylphenol	106-44-5	10	330
N-Nitroso-di-n-dipropylamine	621-64-7	10	330
Hexachloroethane	67-72-1	10	330
Nitrobenzene	98-95-3	10	330
Isophorone	78-59-1	10	330
2-Nitrophenol	88-75-5	10	330
2,4-Dimethylphenol	105-67-9	10	330
Benzoic Acid	65-85-0	50	1600
bis(2-Chloroethoxy) methane	111-91-1	10	330
2,4-Dichlorophenol	120-83-2	10	330
1,2,4-Trichlorobenzene	120-82-1	10	330
Naphthalene	91-20-3	10	330
4-Chloroaniline	106-47-8	10	330
Hexachlorobutadiene	87-68-3	10	300
4-Chloro-3-methylphenol	59-50-7	10	330
2-Methylnaphthalene	91-57-6	10	330
Hexachlorocyclopentadiene	77-47-4	10	330
2,4,6-Trichlorophenol	88-06-2	10	330
2,4,5-Trichlorophenol	95-95-4	50	1600
2-Chloronaphthalene	91-58-7	10	330
2-Nitroaniline	88-74-4	50	1600
Dimethylphthalate	131-11-3	10	330
Acenaphthylene	208-96-8	10	330
2,6-Dinitrotoluene	606-20-2	10	330
3-Nitroaniline	99-09-2	50	1600
Acenaphthene	83-32-9	10	330
2,4-Dinitrophenol	51-28-5	50	1600
4-Nitrophenol	100-02-7	50	1600
Dibenzofuran	132-64-9	10	330
2,4-Dinitrotoluene	121-14-2	10	330
Diethylphthalate	84-66-2	10	330
4-Chlorophenyl-phenyl ether	7005-72-3	10	330

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SLUDGE SEDIMENT
Fluorene	86-73-7	10 ug/L	330 ug/Kg
4-Nitroaniline	100-01-6	50	1600
4,6-Dinitro-2-methylphenol	534-52-1	50	1600
N-nitrosodiphenylamine	86-30-6	10	330
4-Bromophenyl-phenylether	101-55-3	10	330
Hexachlorobenzene	118-74-1	10	330
Pentachlorophenol	87-86-5	50	1600
Phenanthrene	85-01-8	10	330
Anthracene	120-12-7	10	330
Di-n-butylphthalate	84-74-2	10	330
Fluoranthene	206-44-0	10	330
Pyrene	129-00-0	10	330
Butylbenzylphthalate	85-68-7	10	330
3,3'-Dichlorobenzidine	91-94-1	20	660
Benzo(a)anthracene	56-55-3	10	330
Chrysene	218-01-9	10	330
bis(2-Ethylhexyl)phthalate	117-81-7	10	330
Di-n-octylphthalate	117-84-0	10	330
Benzo(b)fluoranthene	205-99-2	10	330
Benzo(k)fluoranthene	207-08-9	10	330
Benzo(a)pyrene	50-32-8	10	330
Indeno(1,2,3-cd)pyrene	193-39-5	10	330
Dibenz(a,h)anthracene	53-70-3	10	330
Benzo(g,h,i)perylene	191-24-2	10	330

Table A
Contract Laboratory Program
Target Compound List
Pesticide and PCB Quantitation Limits

COMPOUND	CAS #	WATER	SOIL
			SEDIMENT SLUDGE
alpha-BHC	319-84-6	0.05 ug/L	8 ug/Kg
beta-BHC	319-85-7	0.05	8
delta-BHC	319-86-8	0.05	8
gamma-BHC (Lindane)	58-89-9	0.05	8
Beptachlor	76-44-8	0.05	8
Aldrin	309-00-2	0.05	8
Beptachlor epoxide	1024-57-3	0.05	8
Endosulfan I	959-98-8	0.05	8
Dieldrin	60-57-1	0.10	16
4,4'-DDE	72-55-9	0.10	16
Endrin	72-20-8	0.10	16
Endosulfan II	33213-65-9	0.10	16
4,4'-DDD	72-54-8	0.10	16
Endosulfan sulfate	1031-07-8	0.10	16
4,4'-DDT	50-29-3	0.10	16
Methoxychlor (Mariate)	72-43-5	0.5	80
Endrin ketone	53494-70-5	0.10	16
alpha-Chlordane	5103-71-9	0.5	80
gamma-chlordane	5103-74-2	0.5	80
Toxaphene	8001-35-2	1.0	160
AROCLOR-1016	12674-11-2	0.5	80
AROCLOR-1221	11104-28-2	0.5	80
AROCLOR-1232	11141-16-5	0.5	80
AROCLOR-1242	53469-21-9	0.5	80
AROCLOR-1248	12672-29-6	0.5	80
AROCLOR-1254	11097-69-1	1.0	160
AROCLOR-1260	11096-82-5	1.0	160

Table A (Cont.)

CONTRACT LABORATORY PROGRAM
 TARGET ANALYTE LIST (TAL)
 INORGANIC DETECTION LIMITS

Compound	Procedure	Detection Limits	
		Water (µg/L)	Soil Sediment Sludge (mg/kg)
aluminum	ICP	200	40
antimony	furnace	60	2.4
arsenic	furnace	10	2
barium	ICP	200	40
beryllium	ICP	5	1
cadmium	ICP	5	1
calcium	ICP	5,000	1,000
chromium	ICP	10	2
cobalt	ICP	50	10
copper	ICP	25	5
iron	ICP	100	20
lead	furnace	5	1
magnesium	ICP	5,000	1,000
manganese	ICP	15	3
mercury	cold vapor	0.2	0.008
nickel	ICP	40	8
potassium	ICP	5,000	1,000
selenium	furnace	5	1
silver	ICP	10	2
sodium	ICP	5,000	1,000
thallium	furnace	10	2
tin	ICP	40	8
vanadium	ICP	50	10
zinc	ICP	20	4
cyanide	color	10	2

3767:1

APPENDIX E

WELL LOGS OF THE AREA OF THE SITE

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204

WL-1

State Form 35690

Telephone 317-232-4160

10/3-

WATER WELL RECORD

Non-responsive, well locations

E OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Container Corp. of America Address Wabash, Indiana

Building Contractor _____ Address _____

of Well Drilling Contractor: Peerless-Midwest, Inc.

51255 Bittersweet Road, P. O. Box 26, Granger, IN 46530

Drilling Equipment Operator: John Kollar

WELL INFORMATION (RESCREENING OF WELL #6)

Originally drilled by others 1939

Depth of well: 31'

Date well was completed: Rescreening - 6-27-84

Diameter of casing or drive pipe: 54" Total Length: 33'6"

Diameter of liner (if used): _____ Total Length: _____

Diameter of Screen: 12" Length: 8' Slot Size: .040"
26" 7'6" #4

Type of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other _____

Use of Well: For Home ☐ For Industry ☒ For Public Supply ☐ Stock ☐

Method of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

Readings taken after chemical cleaning and development of well after rescreening
Static water level in completed well (Distance from ground to water level) 23' feet

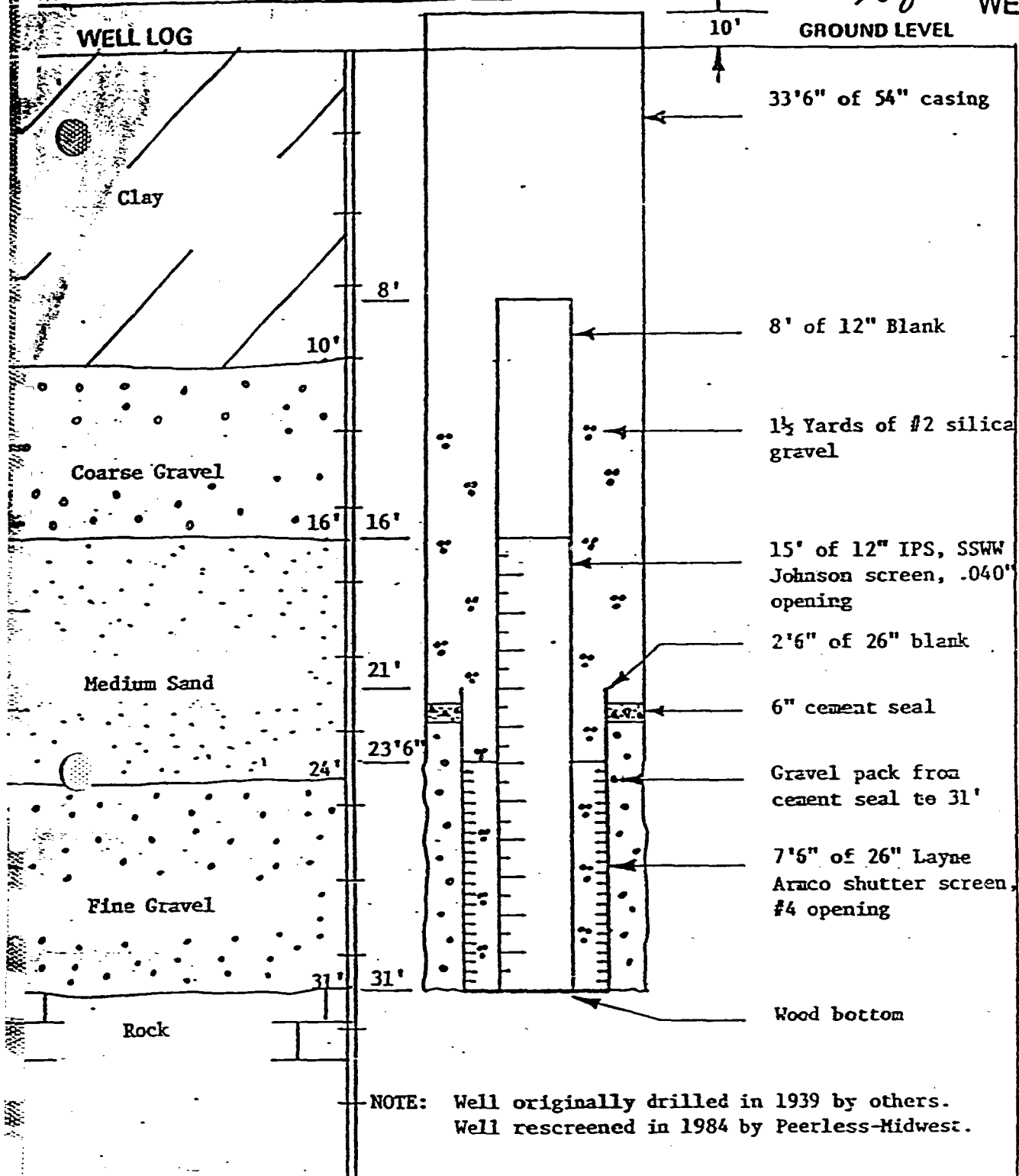
Flow Test: Hours Tested _____ Rate _____ g.p.m. Drawdown _____ ft. (Drawdown is the difference

Flowing Test: Hours Tested 8 Rate 178 g.p.m. Drawdown 9 ft. between static level and water level at end of test)

Signature R. J. Williams

R. J. Williams

Date September 13, 1984



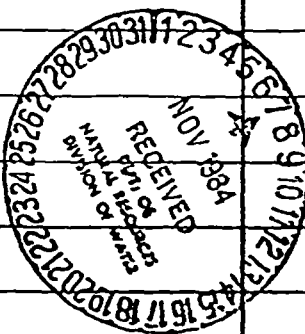
Wabash		State Indiana	
Location 250' Southeast of Plant and 150' West of End of Fulton Street			
County Wabash	Twp. Noble	Section 10	
Well rescreened, treated for iron bacteria and chemically cleaned and developed.			
Capacity 178	GPM. Static Water	Well No. 6	
ft. Pumping Level 32	ft.	CONTAINER CORPORATION OF AMERICA	
Specific Capacity 19.7	GPM/Ft. D.D.	WABASH, INDIANA	
Well Drilled 4-15-39, Rescreened 6-27-84			
Rescreened by John Kollar			
No.			
PEERLESS-MIDWEST, INC. Granger, Indiana			

WELL LOG #1 3 of 3

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

[illegible]

Subdivision Name



DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
311 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA

WATER WELL RECORD

Non-responsive, well locations

Co
Co
De
on

Non-responsive, PII

Name of owner

Name of Well Drilling Contractor:

Address:

Name of Drilling Equipment Operator:

INFORMATION ON THE WELL

Completed depth of well: 102 ft. Date well was completed: Jan 28, '61Diameter of outside casing or drive pipe: 4"Length: 42'Diameter of inside casing or liner: ✓Length: ✓Diameter of Screen: ✓Length: ✓Slot size: ✓

Type of Well:

Drilled ☒Gravel Pack ☐Driven ☐Other ☐

Use of Well:

For home ☐For industry ☐For public supply ☐Stock ☒

Method of Drilling:

Cable Tools ☒Rotary ☐Rev. Rotary ☐Jet ☐Driven ☐Static water level in completed well (Distance from ground to water level) 46 ft.

Bailer Test: Hours tested

Rate

g.p.m.

Drawdown

ft.

(Difference between

Pumping Test: Hours tested 2Rate 15

g.p.m.

Drawdown 15

ft.

static level and water level at end of test)

Signature W. J. SmithDate Jan 28 1961

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

[illegible]

100
101

1950 / Nov. 11

1

2.1.1

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MELORE 3-6757



WATER WELL RECORD

Non-responsive, well locations

Non-responsive, PII

Name of owner:

Name of Well Drilling Contractor: Empire Well and Pump Corporation

Address: 27 Walnut St. Hobart

Name of Drilling Equipment Operator: Mr. Warren J. Bluff

INFORMATION ON THE WELL

Completed depth of well: 96 ft. Date well was completed: Feb 26, 1966

Diameter of outside casing or drive pipe: 4 inch Length: 18 feet

Diameter of inside casing or liner: _____ Length: _____

Diameter of Screen: _____ Length: _____ Slot size: _____

Type of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other _____

Use of Well: For home ☒ For industry ☐ For public supply ☐ Stock ☐

Method of Drilling: Cable Tools ☒ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

Static water level in completed well (Distance from ground to water level) 45 ft.

Bailer Test: Hours tested 1 Rate 400 g.p.# Drawdown 0 ft. (Difference between static level and water level at end of test)
Pumping Test: Hours tested 5 Rate 600 g.p.# Drawdown 0 ft.

Signature Warren J. Bluff

Date March 3, 1966

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

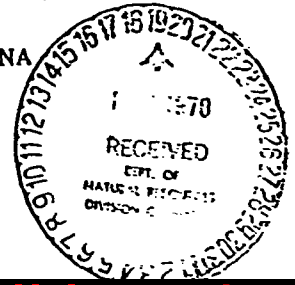
[illegible]

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water Resources, Indiana Department of Conservation.

WL-4

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209

WATER WELL RECORD



Non-responsive, well locations

County in which well was

Congressional township:

Describe in your own words

or distinctive landmarks:

Name of owner

Non-responsive, PII

Name of Well Drilling Contractor:

Helwig & Sons Inc

Address:

5418 Lincoln Blvd Marion, Ind

Name of Drilling Equipment Operator:

James Helwig

INFORMATION ON THE WELL

Completed depth of well: 61 ft. Date well was completed: 7-17-70

Diameter of outside casing or drive pipe: 4" Length: 55'

Diameter of inside casing or liner: Length:

Diameter of Screen: Length: Slot size:

Type of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ OtherUse of Well: For home ☒ For industry ☐ For public supply ☐ Stock ☐Method of Drilling: Cable Tools ☐ Rotary ☒ Rev. Rotary ☐ Jet ☐ Driven ☐

Static water level in completed well (Distance from ground to water level) 30 ft.

Bailer Test: Hours tested Rate g.p.m. Drawdown ft. (Difference between static level and water level at end of test)

Pumping Test: Hours tested 1 Rate 50 g.p.m. Drawdown 0 ft. level at end of test)

Signature

William C. Helwig

Date

7-31-70

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

4.

FOR ADMINISTRATIVE USE ONLY

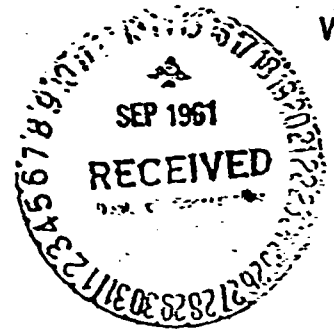
This Water Well Record form is designed to record the most essential data concerning a water well. We request that you be as accurate as possible in recording this information as it may be of great assistance in the planning and development of new water supplies.

An accurate location of the well is equally as important as an accurate well log. Please include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
311 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA

WATER WELL RECORD



*Still no one home
7/27/65
will not location*

Non-responsive, well locations

Non-responsive, PII

Name of owner:

Name of Well Drilling Contractor:

Address:

Name of Drilling Equipment Operator:

INFORMATION ON THE WELL

Completed depth of well: 105 ft. Date well was completed: 9-8-61Diameter of outside casing or drive pipe: 4" Length: 10

Diameter of inside casing or liner: _____ Length: _____

Diameter of Screen: _____ Length: _____ Slot size: _____

Type of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other _____Use of Well: For home ☒ For industry ☐ For public supply ☐ Stock ☐Method of Drilling: Cable Tools ☒ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐Static water level in completed well (Distance from ground to water level) 65 ft.Bailer Test: Hours tested 1 Rate 10 g.p.m. Drawdown 10 ft. (Difference between static level and water level at end of test)

Pumping Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft. level at end of test)

Signature

Date

[illegible]

PC
Mc

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water Resources, Indiana Department of Conservation, 311 West Washington Street, Indianapolis, Indiana.

Incorporated

WL-63

☒ PERMANENT

Job No. HLG210

WELL LOG No.

Index

Wavelength

Owner General Tire & Rubber Company

Warship Noble

— 350 —

Index

Location

3000

From Land Description _____ ft. East and _____ ft. South of SW Corner of Section _____

From Street or Room Box 300 E. of Charlie Creek and 7th N. of Kibash
River - 1st North of old #3 well

_____ 31 inch diameter hole drilled by ☒ Cable Tool ☐ Fire ☐ Jetting
Pipe left in hole 15 57 (20' below ground and 15' above ground)

3 inch diameter hole drilled by ☒ Cable Tool ☐ Hammer ☐ Jetting

Pipe left in hole ~~15 5'~~ (20' below ground and 15' above ground)

Date Started 5/9/60 Finished 5/20/60

Sullivan
PRINTER



DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

STREMMEL & HILL WL-7
Phone 981-4191
LaFontaine, Indiana

WATER WELL RECORD

Non-responsive, well locations

Cour
Cong
Desc
or

of U S Road 24. Well in front of building about
10' W. of - NE corner and about 1' from front

Name of owner: Cashway Lumber Company Address: 3404 South Western Avenue
Marion, Indiana

Name of Well Drilling Contractor: Stremmel & Hill

Address: 105 West Kendall Street LaFontaine, Indiana 46940

Name of Drilling Equipment Operator: Cecil Siders

INFORMATION ON THE WELL

Completed depth of well: 115 ft. Date well was completed: 3/25/65

Diameter of outside casing or drive pipe: Length:

Diameter of inside casing or liner: 4" Length: 21'

Diameter of Screen: Length: Slot size:

Type of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other

Use of Well: For home ☐ For industry ☒ For public supply ☐ Stock ☐

Method of Drilling: Cable Tools ☒ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

Static water level in completed well (Distance from ground to water level) 30 ft.

Bailer Test: Hours tested $\frac{1}{2}$ Rate 15 g.p.m. Drawdown ft. (Difference between
static level and water

Pumping Test: Hours tested 2 Rate 16 g.p.m. Drawdown 0 ft. level at end of test)

Signature

STREMMEL & HILL
by Jerry Hill

Date April 12, 1965

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

[illegible]

mc
mc

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water Resources, Indiana Department of Conservation.

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
311 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA

WL-8

WATER WELL RECORD

Non-responsive, well locations

County in which well was
Congressional township:
Describe in your own words
distinctive landmarks

Name of owner:

Non-responsive, PII

Name of Well Drilling Contractor:

Ralph Kluty & Son

Address:

Name of Drilling Equipment Operator:

INFORMATION ON THE WELL

Completed depth of well: 64 ft. Date well was completed: July 12/62

Diameter of outside casing or drive pipe: 2 Length: 17

Diameter of inside casing or liner: Length:

Diameter of Screen: 1 1/4 Length: 3 ft Slot size: 12

Type of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other

Use of Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐

Method of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

Static water level in completed well (Distance from ground to water level) 20 ft.

Pail Test: Hours tested Rate g.p.m. Drawdown ft. (Difference between static level and water level at end of test)
Pumping Test: Hours tested Rate 300 g.p.m. Drawdown ft.

Signature

Ralph Kluty

Date

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

Q.

FOR ADMINISTRATIVE USE ONLY
(Well Driller does not fill)

This Water Well Record form is designed to record the most essential data concerning a water well. We request that you be as accurate as possible in recording this information as it may be of great assistance in the planning and development of new water supplies.

An accurate location of the well is equally as important as an accurate well log. Please include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water Resources, Indiana Department of Conservation, 311 West Washington Street, Indianapolis, Indiana.

Pipe extends 0 feet above ground level.

Job No. 11393

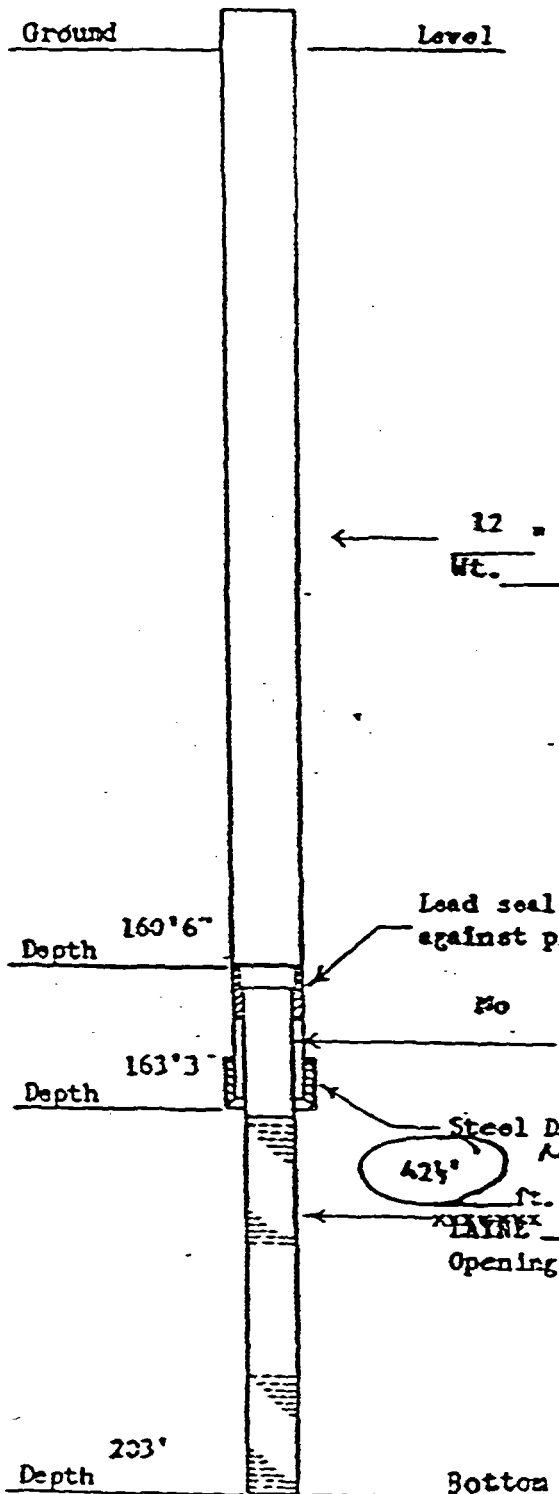
Location from Street or Road
395' N. of Yankee Rd.

100' N. of Wolf Rd.

County Wabash

Township Noble

Section 33



Pipe Tally	Welded Extended
Bottom	11'6"
	11'3"
	11'9"
	11'2"
	13'10"
	13'5"
	10'7"
	10'6"
	12'8"
	9'11"
	13'3"
	11'8"
Top	13'13"
Total	163'3"

Static Level 41'
Pumped 46' 1016 GPM
at 24 pumping level
after 24 hours
Schools
Driller 4-33-63
Date Finished 4-33-63

Not drawn to scale
All depths measured from Ground Level

LAYNE TUBULAR WELL No. Smith 21
For
INDIANA WATER CORPORATION
KANSAS, IND.

LAYNE NORTHERN CO. INC.
MISHAWAKA, INDIANA

DRAWN BY
APPROVED BY
DATE

DRAWING NO.

Pipe extends 1 feet above ground level.

Job No. 111,523

Location from Street or Road

100' W. of Yankee Rd.
800' N. of Wolf Rd.

County Wabash

Township Noble

Section _____

Ground _____ Level _____

Pipe Tally _____ Welded
Throat _____

Bottom 12' 2"

← 12" Black Steel Pipe
Wt. _____ lbs. per Foot

10' 4"

12'

11' 3"

10' 6"

11' 2"

10' 9"

12' 4"

12' 3"

11' 6"

11' 4"

11'

Top

Total

107' 5"

167'

Depth 145

Load seal expanded
against pipe Yes

Depth 147'

Blank Tube No _____

Steel Drive Shoe Yes

40 ft. of Cook
11.5r. Screen
Opening #30 slot

Depth _____ Bottom _____

Static Level 44
Pumped 1529 GPM
at 53 pumping level
after 8 hours

Driller Schoon

Date Finished 10-22-65

Not drawn to scale
All depths measured from Ground Level

LAYNE TUBULAR WELL No. 2
For
IND. WATER CORP. SMITH FIELD
WABASH, IND.

LAYNE NORTHERN CO. INC.
MISHAWAKA, INDIANA

DRAWN BY _____
APPROVED BY _____
DATE _____

DRAWING NO. _____

Incorporated

MISHAWAKA, INDIANA

WELL NO. 2

TEST

☒ PERMANENT - Salt Field

Job No. 7-11523

WELL LOG No. 2 CITY Wabash

County _____

Owner Indiana Bear Corp.

Township 62N1E

Section Y-14-000

Slide 12-18

Location

State _____

From Land Description _____ ft. East and _____ ft. North of SW Corner of Section.

From Street or Road 130' West of Tanker Rd.

803' North of Wolf Rd.

[illegible]

12 inch diameter hole drilled by ☒ Cable Tool ☐ Rotary ☐ Jetting
Pipe left in hole 157' - 40' Cook screen

Date Started 9-27-63

Finished 17-72-65

Schon

DRIVER